



Advanced call analytics for small to mid-size organisations

Product Documentation

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Home

Legal & copyright notices

Software license

When you purchase this software, you are actually purchasing a license to use it.

One license covers one installation, although one installation may cover up to five sites.

Your support contract, if applicable, will cover all sites logged by this TIM Plus installation.

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The contact details of the copyright holders are:

Tri-Line Network Telephony Limited
9-10 Telfords Yard
The Highway
London
E1W 2BS

Switchboard: +44 20 7265 2600
Technical Support: +44 20 7265 2626
Website: <http://www.tri-line.com/>

Free upgrades

We operate a free upgrade scheme for customers who purchase maintenance at the same time as purchasing a license; whilst a maintenance contract is in place, minor software updates and enhancements are made available free of charge.

Free upgrades are solely at the discretion of Tri-Line and are usually delivered by electronic means over the internet. It is the customer's responsibility to ensure that these updates can be received.

Customers without a maintenance contract will be charged for any software upgrades they require, as well as for any technical assistance needed during the upgrade procedure.

System requirements

Hardware

A computer with the following specification will comfortably run a single copy of TIM Plus:

- 2 GHz Dual-Core x86/x86-64 CPU
- 2 GB memory
- 80 GB hard disk
- Windows XP SP3, Vista, 7, 8, Server 2003, 2008, 2012 operating systems
- Ethernet TCP/IP network

We do not recommend integration of the internal SQL database of TIM Plus with third-party applications such as CRM systems; for this type of solution, we would recommend our [TIM Enterprise](#) product.

Software



- Microsoft Internet Explorer 6+
- Mozilla Firefox 2+
- Apple Safari
- Google Chrome
- Opera



For automatic licensing during installation of the software, a connection to the internet is also required. For best results, ensure that the PC can access external websites on TCP ports 80 (HTTP) and 443 (HTTPS) without the need for a proxy login.

Summary

- TIM Plus must be installed on a Windows PC but can be viewed from any web browser running on any operating system without the need for additional client software.
- TIM Plus comes with its own in-built web server, so a server edition of Windows is not required nor is an external web server such as IIS or Apache.

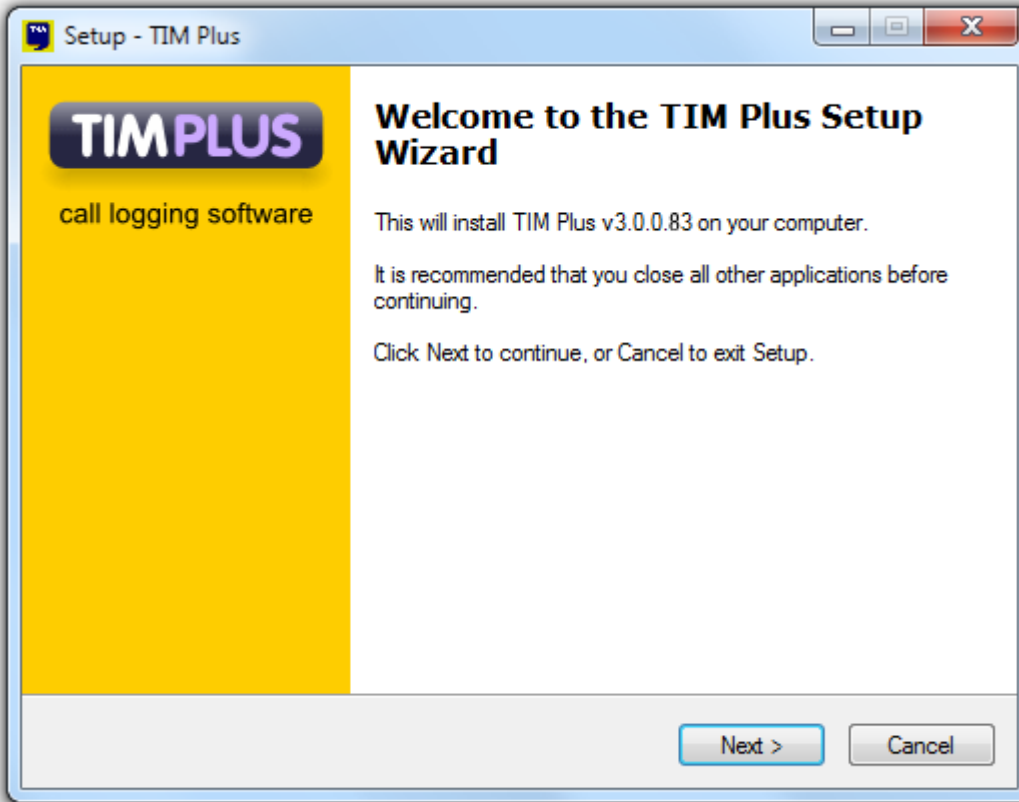
Setup

Obtaining and installing TIM Plus

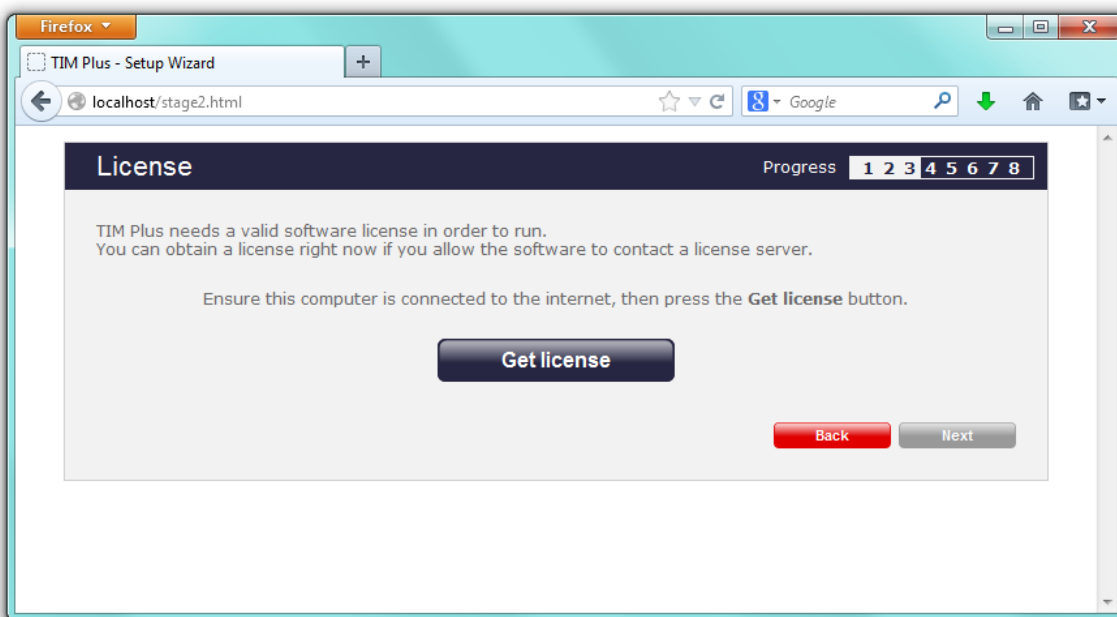
Log on to the [Tri-Line Gateway](#) using the credentials you created when you first enquired about TIM Plus. Once logged on, you will be directed to your [Home](#) page, from where you can download your personal copy of the software.

- ✓ It is important that you download your software only from this location, since each installation package is tagged with an unique ID bound to your account.

When you have downloaded the setup package, double-click on it and follow the setup wizard in order to complete the installation.



When asked to provide a license certificate, click on the **Get license** button to retrieve this automatically from our servers.



Obtaining a license manually

If you cannot update your software license automatically, you can apply this manually by following the steps below:

1. In the `Get license` window, click on the `Next` button and copy the product key displayed in the `License` box, as shown below:

```

--- BEGIN PRODUCT KEY -----
UAAAHAicAVAAr/9s8zxjdyBcmwqLZ8IknMhQr3UEToj9j3DJ
O36fheDXOz5PAFW9GWpPDffai6UUh1tu06+HqtIXrPK6PaAV
yy/arfUj1Avz8EOx5xNkp2qOLRhgJ/c=
--- END PRODUCT KEY -----

```

2. Log in to the `Gateway` using your username and password.
3. In the `Products` panel, click on the TIM Plus product.
4. In the `Software license` panel, click on the `Activate now` link.
5. Paste the product code in the activation text box.
6. Enter the number of users you intend to log and the version number of the software, then click on the `Activate Now` to obtain the license certificate.
7. Copy and paste the certificate in the `License` box of the TIM Plus setup wizard.


Connecting to your PBX

3COM


3COM VCX


These instructions help you configure your 3COM VCX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus receives FTP transfers from this PBX.

Support Files

 3Com VCX-NBX.TDT

 3Com VCX-NBX.TDS

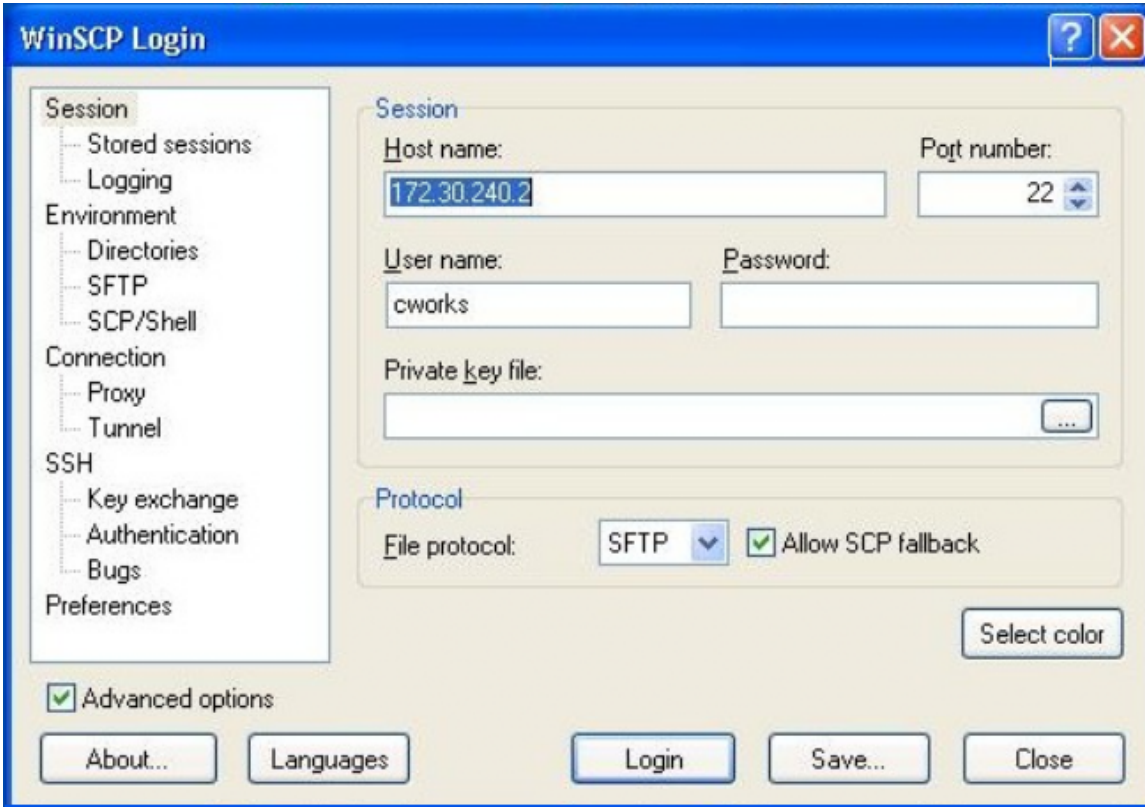
Required Tasks

Configure the SMDR output

Configure TIM Plus

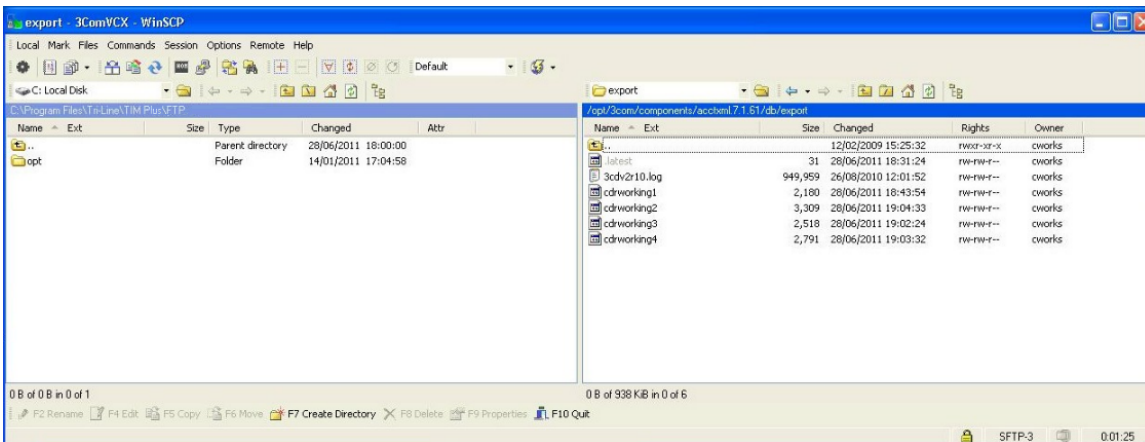
Configuring your SMDR output

To retrieve call logging data from your 3COM VCX phone system, you need to set up an SFTP transfer. Below is an example of how to configure this, using WinSCP - a free FTP client software. Any other third-party client software can be used instead.

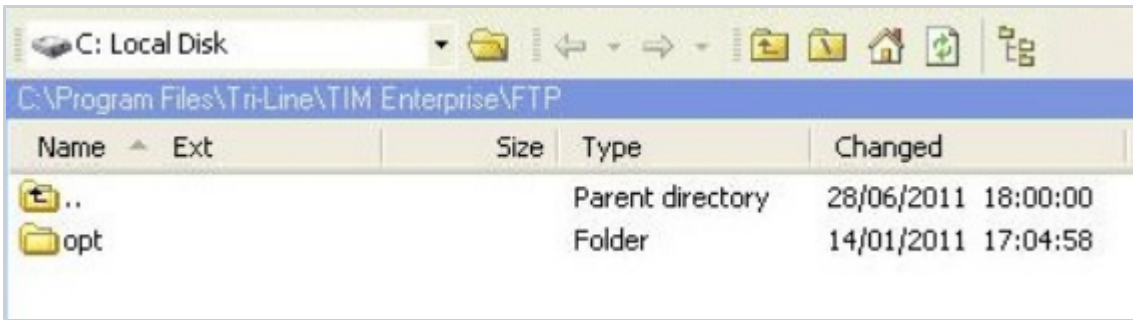


Field	Description
Host name	The IP address or host name of the phone system
Port number	The port number for the SFTP transfer. The default port number is 22
User name	The username required to log in to your 3COM VCX phone system
Password	The password required to log in to your 3COM VCX phone system

Once connected to the phone system, you can transfer the CDR files, located by default in `opt/3com/VCX/acctxml/db/export`, to the PC running TIM Plus.



In this example, the XML files are being copied in the following location: `C:\Program Files\Tri-Line\TIM Enterprise\FTP`, given the `FTP` folder has been created in advance for this purpose.



Creating a batch file

To enable TIM Plus to collect and process the XML files, you need to create a batch file containing the following lines:

```
xcopy/Y "C:\Program Files\Tri-Line\TIM Plus\FTP\*.XML"
"C:\Program Files\Tri-Line\TIM Plus\spool\*.{sitecode}"
cd "\Program Files\Tri-Line\TIM Plus\FTP\"
del *.* /q
cd\
```



In the above example, the `{sitecode}` needs to be replaced with the unique ID of the site object you are trying to send the data to. To obtain the ID of a site, hover the mouse pointer over it on the **Directory** screen in TIM Plus and it will be displayed as a tooltip.

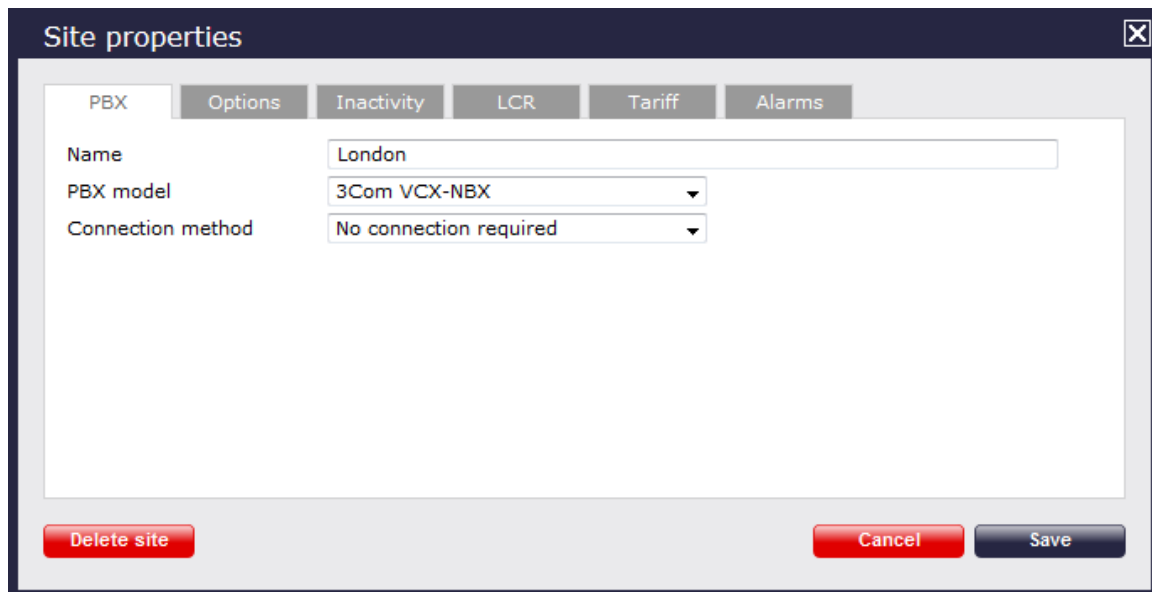
The batch file will change the `.xml` file extension to the designated site code and move the files in the `spool` folder for processing.

A Windows scheduled task must be set up as well in order to run the batch file every 5 minutes or so.

Configuring TIM Plus

Once the batch file has been configured, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: 3Com VCX-NBX

Connection method: No connection required

Delete site Cancel Save


3. In the `Site Properties` window, select `3Com VCX-NBX` from the `PBX model` drop-down list.
4. In the `Connection method` field, select `No connection required` from the drop-down list.
5. Click on the `Save` button to apply the settings.

3CX




3CX PBX

These instructions help you configure your 3CX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus listens for connections from this PBX.

Support Files

-  3CX.TDT
-  3CX.TDS
-  CDRTemplate-Socket.xml

Required Tasks


- Configure the SMDR output
- Configure TIM Plus


Configuring your SMDR output


[Download the interface file](#)

1. Visit the [Gateway](#) and download the interface files from the [Related downloads](#) section, as shown below:


Downloads

 **Full install package**
TIM Plus


 **Upgrade package**
TIM Plus

 **Documentation**
Product documentation for your TIM Plus

Software license [View license certificate](#)


 **This product is licensed**
The license for this product is valid and up-to-date.

Maintenance

 **This product is maintained**
You have maintenance until **19 September 2020**, giving you full access to our technical support resources during this time.

Related downloads

Download executables and documents related to the PBXs you are using with this software

Name	Version
<p>3CX 3CX interface file for this TIM Plus.</p>	 TDT file (zip)

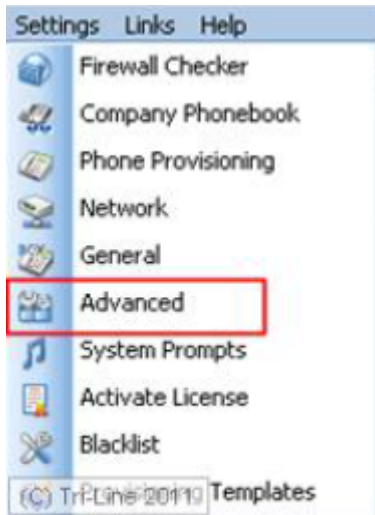
2. Extract the **3CX.ZIP** file onto the desktop.
3. Copy the **3CX.TDT** and **3CX.TDS** files into `C:\Program Files\Tri-Line\TIM Plus\config`, overwriting any existing files with the same name.

Configure the interface file

1. Transfer the `CDRTemplate-Socket.xml` file onto the 3CX server and place it in the following location: `C:\Documents and Settings\All Users\Application Data\3CX\Data\CDRTemplates`.
2. Edit `CDRTemplate-Socket.xml` and update the relevant entry to point to the IP address of the machine running TIM Plus.

```
<?xml version="1.0" encoding="utf-8"?>
<CallTemplate Host="127.0.0.1" Port="33555" outboundOnly="false">
  <idcallhistory> {0} </idcallhistory>
  <callid> {0} </callid>
  <duration> {0} </duration>
  <starttime> {0:yyyy-MM-dd HH:mm:ss}</starttime>
  <answertime> {0:yyyy-MM-dd HH:mm:ss}</answertime>
  <endtime> {0:yyyy-MM-dd HH:mm:ss}</endtime>
  <from_no> {0} </from_no>
  <to_no> {0} </to_no>
  <group_no> {0} </group_no>
  <line_no> {0} </line_no>
</CallTemplate>
```

3. Log in to your 3CX server and from the main menu go to `Settings->Advanced`, as shown below:



4. Select **CDR output** from the **Advanced Settings** screen.
5. Enable the tick box for **Output CDR to Socket (Active - Initiates connection)** and click **Apply**.
6. Under **3CX Phone System**, click **Service Status** and within the **Service Name** section, select **3CX PhoneSystem Call History**.
7. Click **Restart** to load the new XML file.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to listen for SMDR data from your 3CX phone system:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.


Site properties	
PBX	Options Inactivity LCR Tariff Alarms
Name	London
PBX model	3CX
Connection method	Listen for connections from PBX
Host	
Port	33555
<input type="button" value="Delete site"/> <input type="button" value="Cancel"/> <input type="button" value="Save"/>	



3. In the **Site Properties** window, select **3CX** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Listen for connections from PBX** from the drop-down list.
5. Leave the **Host** field blank.
6. In the **Port** field, enter **33555** as the default port for connections to this PBX.
7. Click on the **Save** button to apply the settings.

Aastra

Aastra BP

These instructions help you configure your Aastra BP phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 **Aastra BP.TDT**
 **Aastra BP.TDS**

Required Tasks
 Configure the SMDR output
 Install NetPBX
 Configure TIM Plus

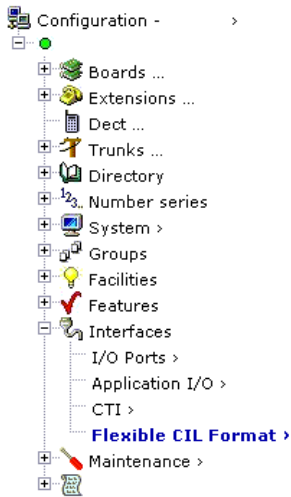
Configuring your SMDR output

BP firmware R12 or older

If you are using firmware older than R12, set the SMDR output to type **CIL 3** which is a fixed format requiring no further configuration.

BP firmware R13+

If you are using firmware R13+, set the SMDR output to **Flexible CIL** and configure the options as below:



Record length 193					
Index	Offset	Field type	Edit	Insert	Delete
1	1	Message code	...	Insert	Delete
2	4	Sequence number CIL4	...	Insert	Delete
3	8	TAG identifier	...	Insert	Delete
4	14	Call date CIL4	...	Insert	Delete
5	21	End time hh:mm:ss	...	Insert	Delete
6	30	Caller's number DDI	...	Insert	Delete
7	39	Call duration CIL4	...	Insert	Delete
8	45	Dialled access code CIL4	...	Insert	Delete
9	50	Dialled number CIL4	...	Insert	Delete
10	75	Information status 3	...	Insert	Delete
11	84	ORG/TERM DEFINITION	...	Insert	Delete
12	87	Account code CIL4	...	Insert	Delete
13	103	Authorisation code DDI	...	Insert	Delete
14	112	Queue time, answer CIL4	...	Insert	Delete
15	117	Meter pulses CIL4	...	Insert	Delete
16	122	Cost state CIL4	...	Insert	Delete
17	124	Cost CIL4	...	Insert	Delete
18	136	Trunk number CIL4	...	Insert	Delete
19	141	Sent access code CIL4	...	Insert	Delete
20	146	Sent number CIL4	...	Insert	Delete
21	171	A-number CIL4	...	Insert	Delete
22	192	Carriage return/LF	...	Insert	Delete
23		----- not used -----	...	Insert	Delete
24		----- not used -----	...	Insert	Delete
25		----- not used -----	...	Insert	Delete
26		----- not used -----	...	Insert	Delete
27		----- not used -----	...	Insert	Delete
28		----- not used -----	...	Insert	Delete
29		----- not used -----	...	Insert	Delete
30		----- not used -----	...	Insert	Delete

Installing NetPBX

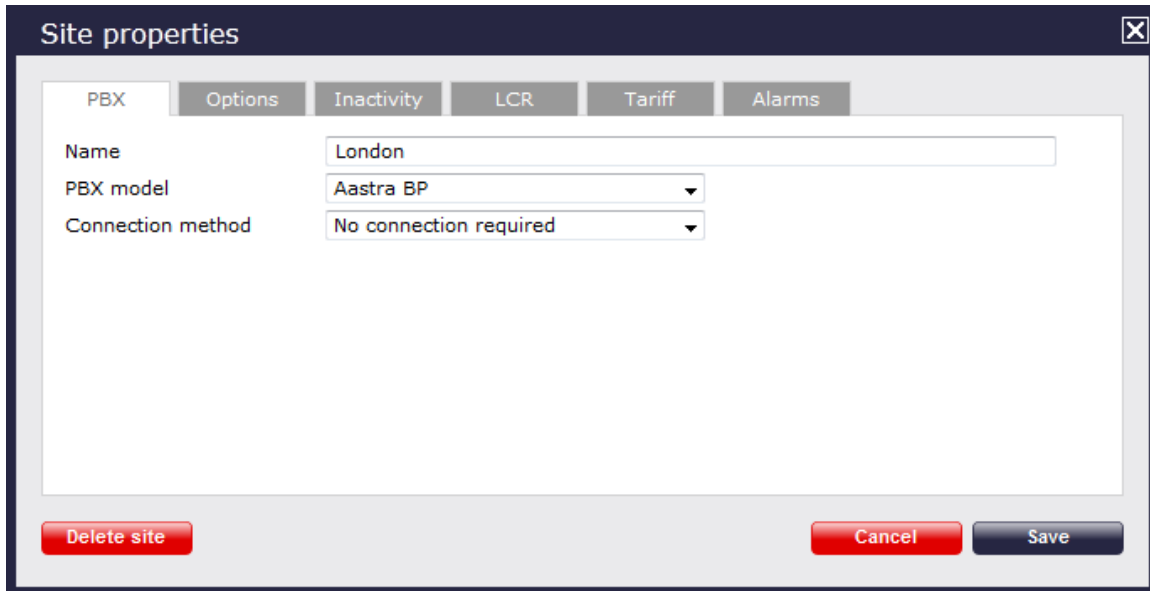
The Aastra BP phone system sends SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Aastra BP

Connection method: No connection required

Delete site Cancel Save

3. In the **Site Properties** window, choose **Aastra BP** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


Aastra Intelligate Series

The Aastra Intelligate Series can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.


Aastra Intelligate Series - Serial connection


These instructions help you configure your Aastra Intelligate phone system to work with TIM Enterprise. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 Aastra PC5.TDT

 Aastra PC5.TDS

Required Tasks

Configure the SMDR output

Install NetPBX

Configure TIM Plus

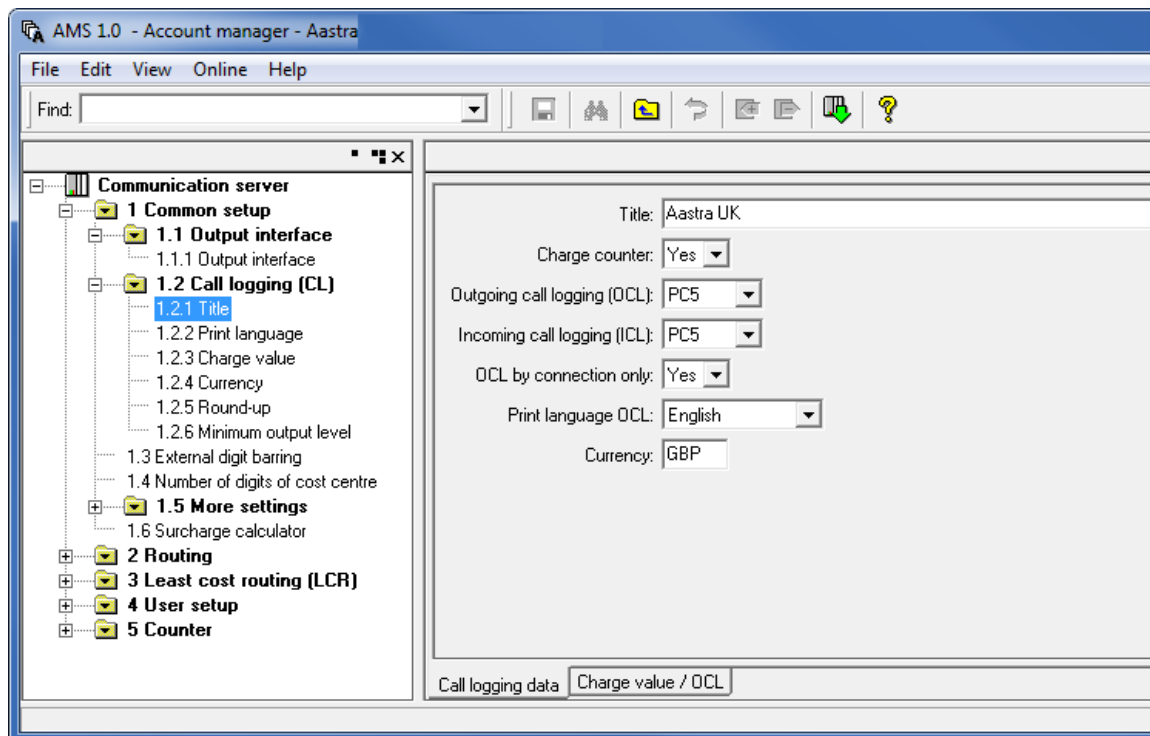
Configuring your SMDR output



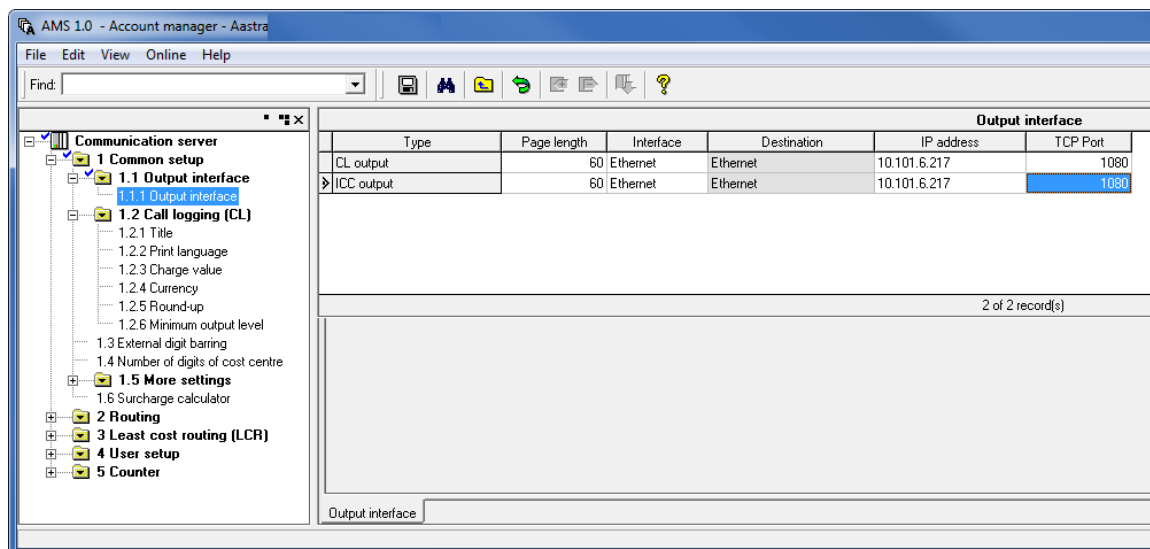
The Aastra Intelligate Series can output SMDR information in multiple formats. You should always select the **PC5** format for use with TIM Plus.

Below are some screenshots to demonstrate how the Aastra Intelligate Series should be configured:

Setting the SMDR format to PC5



Setting the SMDR format to TCP/IP



Setting the SMDR format to PC5

The OIP Server has a very basic call logging module. If you intend to install TIM Plus alongside the OIP Server, you need to uninstall the call logging module from the OIP Server suite, otherwise, when configuring your Aastra to output the data to the PC running TIM Plus, the OIP Server will overwrite some required settings.

Installing NetPBX

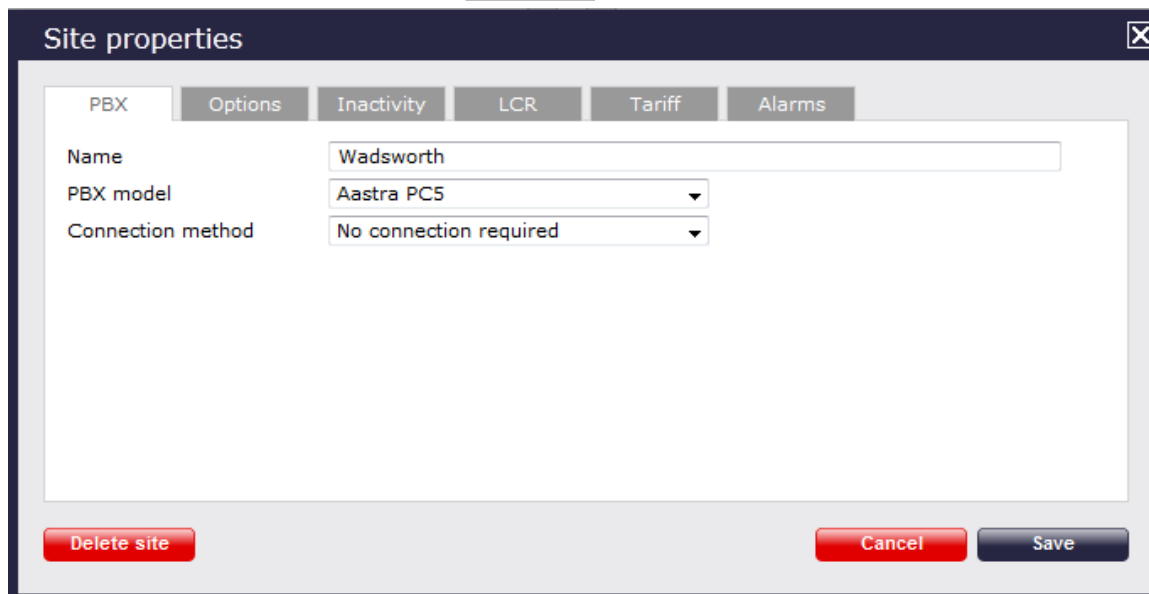
If your Aastra Intelligate has been configured to send SMDR data via a serial connection, you first need to install the NetPBX software to collect the data from the serial port and send it to TIM Plus. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' window with the following configuration:

- Name:** Wadsworth
- PBX model:** Aastra PC5
- Connection method:** No connection required


Buttons at the bottom: Delete site, Cancel, Save.

3. In the **Site Properties** window, select **Aastra PC5** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the changes.



Aastra Intelligate Series - IP connection

These instructions help you configure your Aastra Intelligate phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus listens for connections from this PBX.

Support Files

-  Aastra PC5.TDT
-  Aastra PC5.TDT

Required Tasks

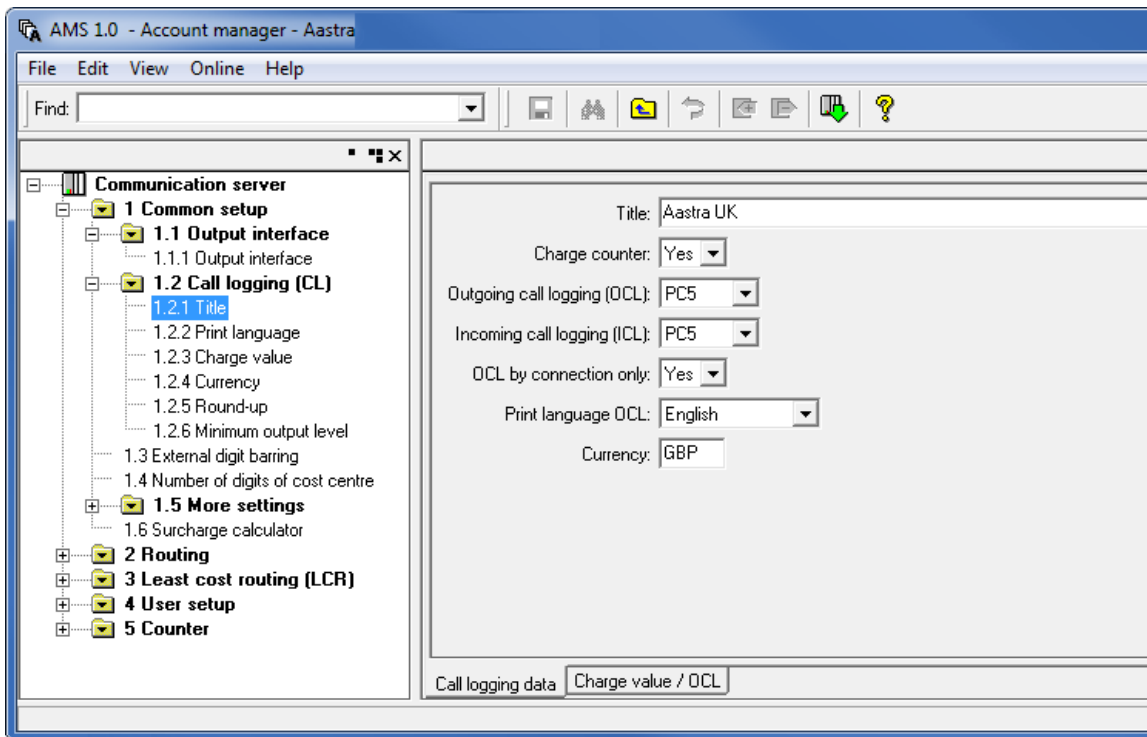
- Configure the SMDR output
- Configure TIM Plus

Configuring your SMDR output

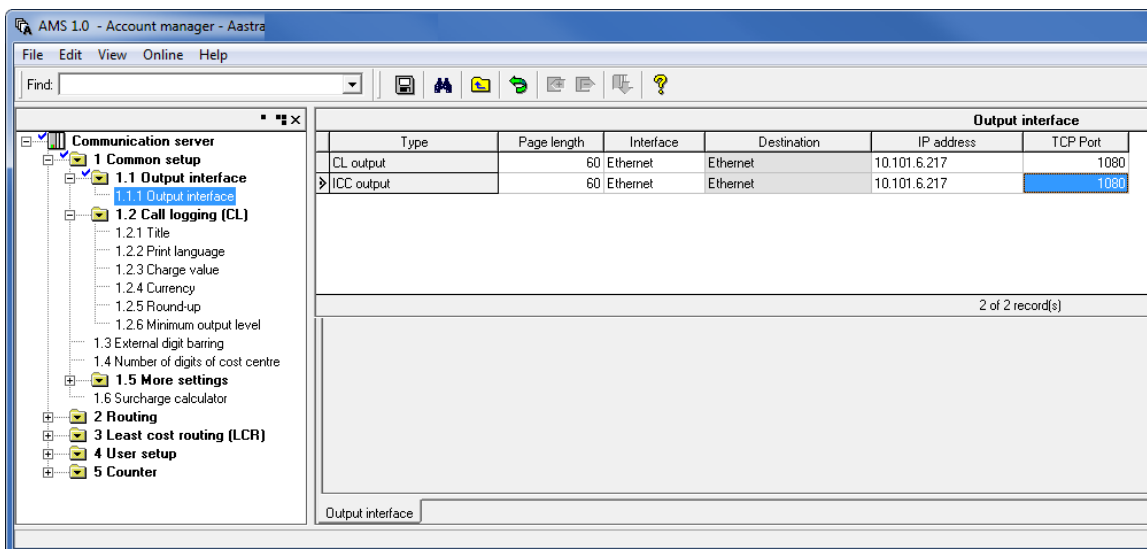
i Note that the Aastra Intelligate Series can output SMDR information in multiple formats. You should always select the PC5 format for use with TIM Plus.

Below are some screenshots to demonstrate how the Aastra Intelligate Series should be configured:

Setting the SMDR format to PC5



Setting the SMDR format to TCP/IP



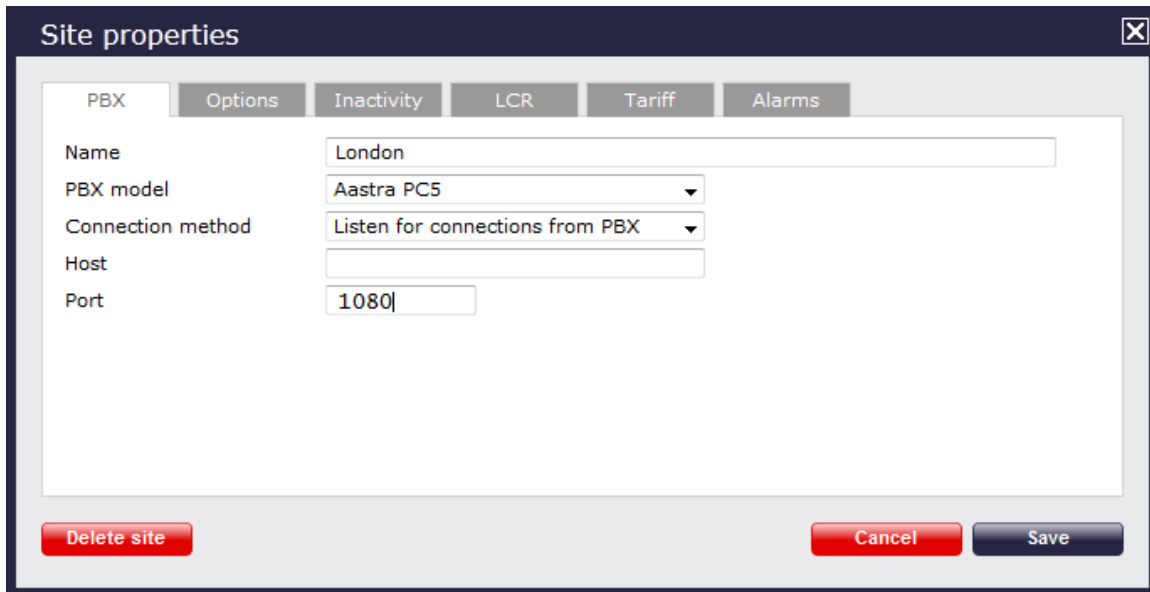
OIP Server and TIM Plus

The OIP Server has a very basic call logging module. If you intend to install TIM Plus alongside the OIP Server, you need to uninstall the call logging module from the OIP Server suite, otherwise, when configuring your Aastra to output the data to the PC running TIM Plus, the OIP Server will overwrite some required settings.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to listen for SMDR data from your Aastra Intelligate Series:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' window with the following fields and values:

- Name:** London
- PBX model:** Aastra PC5
- Connection method:** Listen for connections from PBX
- Host:** (empty)
- Port:** 1080


Buttons at the bottom: Delete site, Cancel, Save.

3. In the **Site Properties** window, select **Aastra PC5** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Listen for connections from PBX** from the drop-down list.
5. Leave the **Host** field blank.
6. In the **Port** field, enter **1080**, the default port number for your Aastra Intelligate phone system.
7. Click on the **Save** button to apply the settings.



Aastra MX-ONE

These instructions help you configure your Aastra MX-ONE phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

-  Aastra MX-ONE BC10.TDT
-  Aastra MX-ONE BC10.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

The Aastra MX-ONE supports multiple SMDR output formats. TIM Plus requires the SMDR format to be set to either **BC8**, **BC10** or **BC13**. For more information on how to configure the data output, please contact your system maintainer.

Installing NetPBX

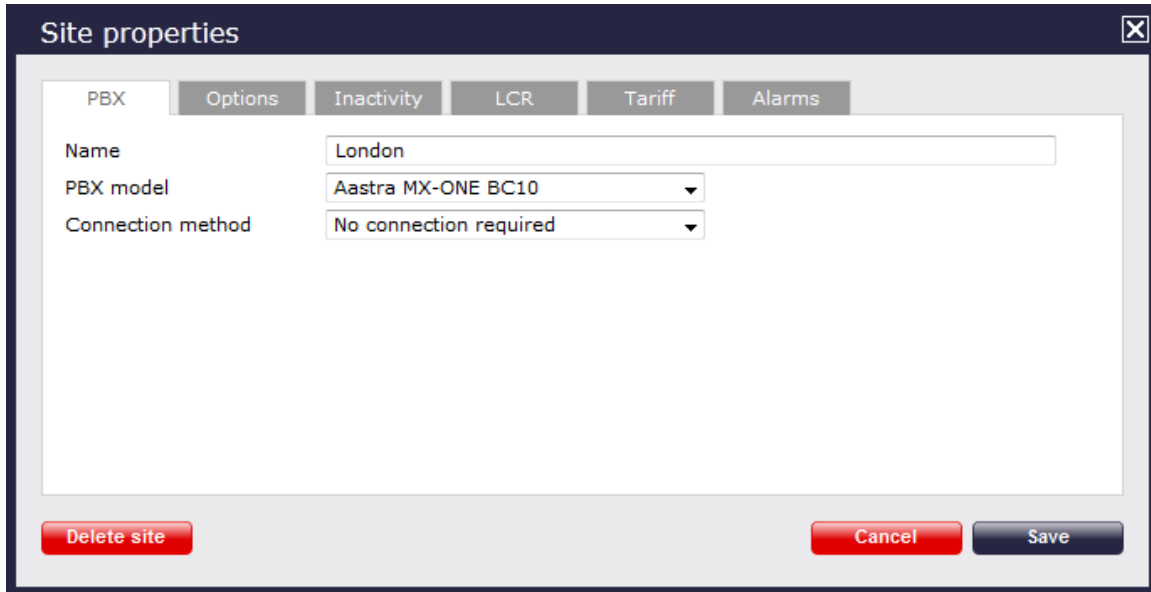
The Aastra MX-ONE phone system sends SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' dialog box with the following configuration:

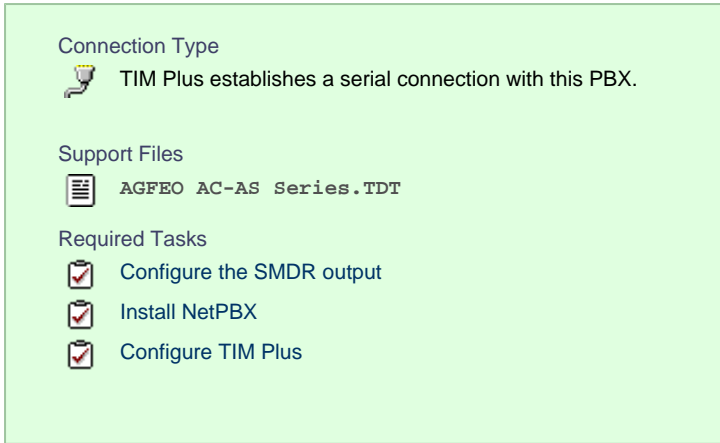
Field	Value
Name	London
PBX model	Aastra MX-ONE BC10
Connection method	No connection required

3. In the **Site Properties** window, select **Aastra MX-ONE BC10** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

AGFEO

AGFEO AC-AS Series

These instructions help you configure your AGFEO AC-AS phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Configuring your SMDR output

The AGFEO AC-AS Series outputs its call records via a serial connection. You need to directly connect a serial cable between your AGFEO AC-AS phone system and the PC that [NetPBX](#) is installed and running on.

For more information about the output and configuration of your SMDR data, please contact your system maintainer.

Installing NetPBX

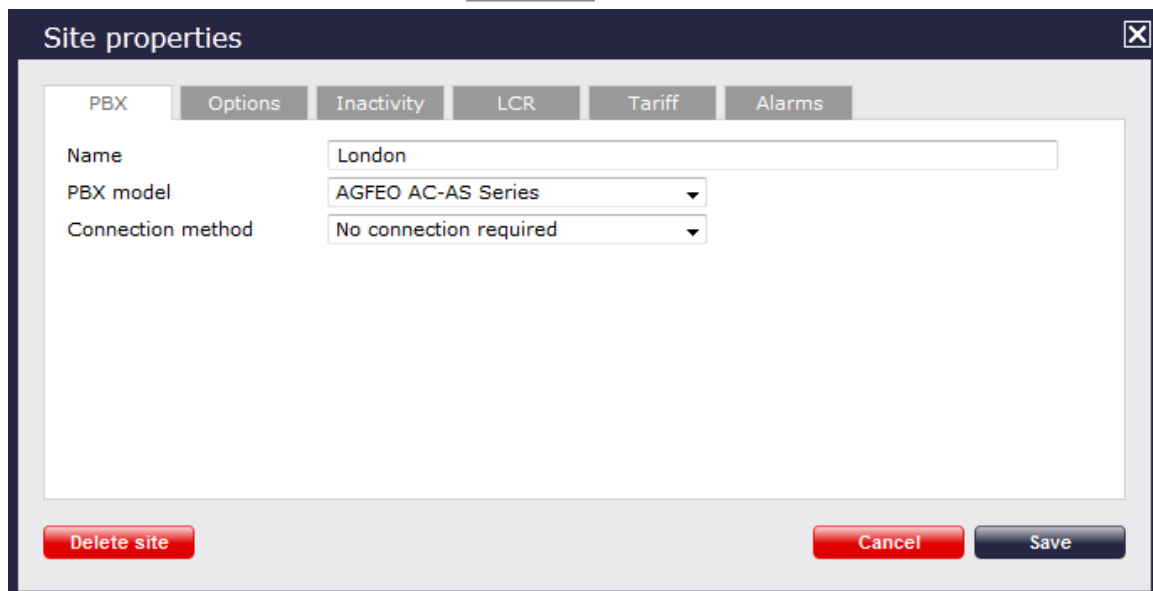
The AGFEO phone system sends SMDR information via a serial connection. To collect the call logging data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the **Site Properties** window, select **AGFEO AC-AS Series** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Alcatel


Alcatel 4200-4400e

These instructions help you configure your Alcatel 4200-4400e phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 Alcatel_4400E.TDT

Required Tasks

- Configure the SMDR output
- Download the interface file
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

The Alcatel 4200-4400e phone system sends its call records via a serial connection. The most recent units already have a .v24 port but, for older units, you may need to purchase a .v24 module. Connect a serial cable between your Alcatel 4200-4400e .v24 module and the PC that NetPBX is installed and running on. See the table below for a summary of data output from Alcatel 4200-4400e:

Manufacturer	Model	Account Codes	CLI	DDI	Internal Calls	Ring Time	Unanswered
Alcatel	4200	Y	Y	N	N	Y	Y
	4300	Y	Y	N	N	Y	Y
	4400e	N	Y	Y	Y	Y	Y
	OmniPCX Enterprise	N	Y	Y	Y	Y	Y
	OmniPCX Office	Y	Y	N	Y	Y	Y

Download the interface file

1. Visit Tri-Line's Gateway and download the interface file, as shown below:

Downloads

Full install package
TIM Plus

Upgrade package
TIM Plus

Documentation
Product documentation for your TIM Plus

Software license [View license certificate](#)

This product is licensed
The license for this product is valid and up-to-date.

Maintenance

This product is maintained
You have maintenance until **19 September 2020**, giving you full access to our technical support resources during this time.

Related downloads

Download executables and documents related to the PBXs you are using with this software

Name	Version
Alcatel 4400E	TDT file (zip)

2. Extract the `Alcatel 4400E.ZIP` file onto your computer's Desktop. This ZIP file contains the following file: `Alcatel 4400E.TDT`.
3. Copy the file into the `C:\Program Files\Tri-Line\TIM Plus\config` folder.

Installing NetPBX

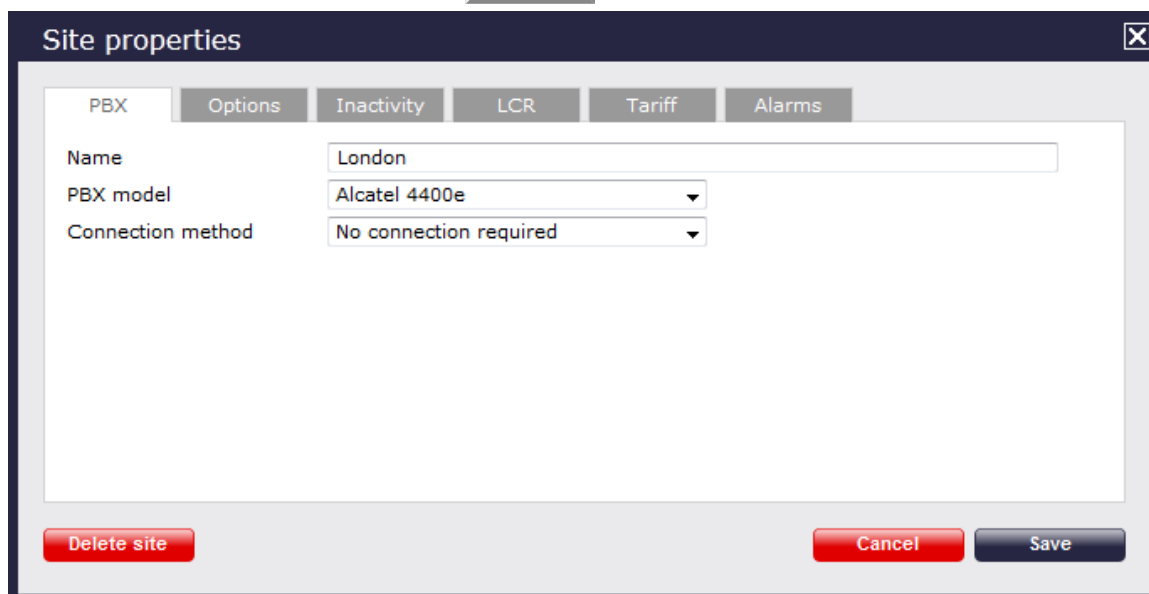
The Alcatel 4200-4400e phone system sends its call records via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



3. In the `Site Properties` window, select `Alcatel 4400e` from the `PBX model` drop-down list.


4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Alcatel OmniPCX Enterprise



The Alcatel OmniPCX Enterprise can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.

Alcatel OmniPCX Enterprise - Serial connection

These instructions help you configure your Alcatel OmniPCX Enterprise phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files

-  Alcatel OmniPCX Enterprise.TDT
-  Alcatel OmniPCX Enterprise.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

Follow the instructions below to configure the SMDR output via a serial connection. These instructions are taken from the Alcatel OmniPCX Enterprise manual:

Using Telnet, connect to the IP address of your Alcatel OmniPCX Enterprise and follow the steps below:

1. Applications (**Enter**)
2. Accounting (**Enter**)
3. Review/Modify (**Enter**)
4. All Instance (**F1**)
5. Realtime ticket Output: Set this to **ethernet**. Note that if you don't have an appropriate license, you may only select V24 (serial) here.
6. Save changes and exit.

Below is an example of the data output from an Alcatel OmniPCX Enterprise:

Manufacturer	Model	Account Codes	CLI	DDI	Internal Calls	Ring Time	Unanswered
Alcatel	4200	Y	Y	N	N	Y	Y
	4300	Y	Y	N	N	Y	Y
	4400e	N	Y	Y	Y	Y	Y
	OmniPCX Enterprise	N	Y	Y	Y	Y	Y
	OmniPCX Office	Y	Y	N	Y	Y	Y

Installing NetPBX

If your Alcatel OmniPCX Enterprise has been configured to send SMDR data via a serial connection, you first need to install the [NetPBX](#) software to collect the data from the serial port and send it to TIM Plus. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:


1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

3. In the **Site Properties** window, select **Alcatel OmniPCX Enterprise** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


Alcatel OmniPCX Enterprise - IP connection


These instructions help you configure your Alcatel OmniPCX Enterprise phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

 Alcatel OmniPCX Enterprise.TDF

 Alcatel OmniPCX Enterprise.TDS

Required Tasks

Configure the SMDR output

Configure TIM Plus

Configuring your SMDR output

Follow the instructions below to configure the SMDR output via an IP connection. These instructions are taken from the Alcatel OmniPCX Enterprise manual:

Connect to your PBX via telnet and follow the steps below:

1. Applications ()
2. Accounting ()
3. Review/Modify ()
4. All Instance ()
5. Realtime ticket Output: Set this to **ethernet**. Note that if you don't have appropriate license, you can only select V24 (serial) here.
6. Save changes and exit

The table below presents a summary of data output from Alcatel:

Manufacturer	Model	Account Codes	CLI	DDI	Internal Calls	Ring Time	Unanswered
Alcatel	4200	Y	Y	N	N	Y	Y
	4300	Y	Y	N	N	Y	Y
	4400e	N	Y	Y	Y	Y	Y
	OmniPCX Enterprise	N	Y	Y	Y	Y	Y
	OmniPCX Office	Y	Y	N	Y	Y	Y

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect the SMDR data from your Alcatel OmniPCX Enterprise:

1. Click on the tab.
2. Choose the site you want to configure and click .

The screenshot shows a 'Site properties' dialog box with the following fields and values:

- Name:** London
- PBX model:** Alcatel OmniPCX Enterprise
- Connection method:** Actively connect to PBX
- Host:** 192.168.1.1
- Port:** 2533
- Username:** (empty)
- Password:** (empty)
- Connection script:** Alcatel OmniPCX Enterprise 7.1+

Buttons at the bottom: Delete site (red), Cancel (red), Save (black).

3. In the **Site Properties** window, select **Alcatel OmniPCX Enterprise** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
5. In the **Host** field, enter the IP address of your Alcatel OmniPCX Enterprise.
6. In the **Port** field, enter **2533** as the default port number for this PBX.
7. Leave the **Username** and **Password** fields blank.
8. In the **Connection script** field, select **Alcatel OmniPCX Enterprise 7.1+** from the drop-down list.
9. Click on the button to apply the changes.


Alcatel OmniPCX Office



The Alcatel OmniPCX Office can be configured to send its SMDR data over a serial (RS232) or database connection. Click on one of the

links below that relates to your preferred connection method.

Alcatel OmniPCX Office - Serial connection

These instructions help you configure your Alcatel OmniPCX Office phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 Alcatel OmniPCX Office.TDT
 Alcatel OmniPCX Office.TDS

Required Tasks
 Configure the SMDR output
 Install NetPBX
 Configure TIM Plus

Configuring your SMDR output

Follow the instructions below to configure the SMDR output of your Alcatel OmniPCX Office phone system:

Alcatel-Lucent OmniPCX Office Communication Server supports two types of call metering:

- V24 metering supports V24 printing for all call metering tickets
- IP metering supports IP printing for call metering tickets originating from a 3rd party application (Business or Hotel) via an IP connection

The type of metering must be specified when the Office Link driver is installed. The driver can be set to one of two modes: [hotel](#) or [metering](#). You can use the `OMC Counting` function to specify the type of call metering for hardcopy printouts.

To set printing options for call metering tickets, follow the steps below:

1. Open the `Counting` function window in the OMC console and select the `Accounting Printout` tab.
2. Select the metering type from the drop-down list: `Ext. Accounting Activation IP` or `Ext. Accounting Activation V24`.
3. Click `OK` to save the settings.

The table below presents a summary of the data output from an Alcatel:

Manufacturer	Model	Account Codes	CLI	DDI	Internal Calls	Ring Time	Unanswered
Alcatel	4200	Y	Y	N	N	Y	Y
	4300	Y	Y	N	N	Y	Y
	4400e	N	Y	Y	Y	Y	Y
	OmniPCX Enterprise	N	Y	Y	Y	Y	Y
	OmniPCX Office	Y	Y	N	Y	Y	Y

Installing NetPBX

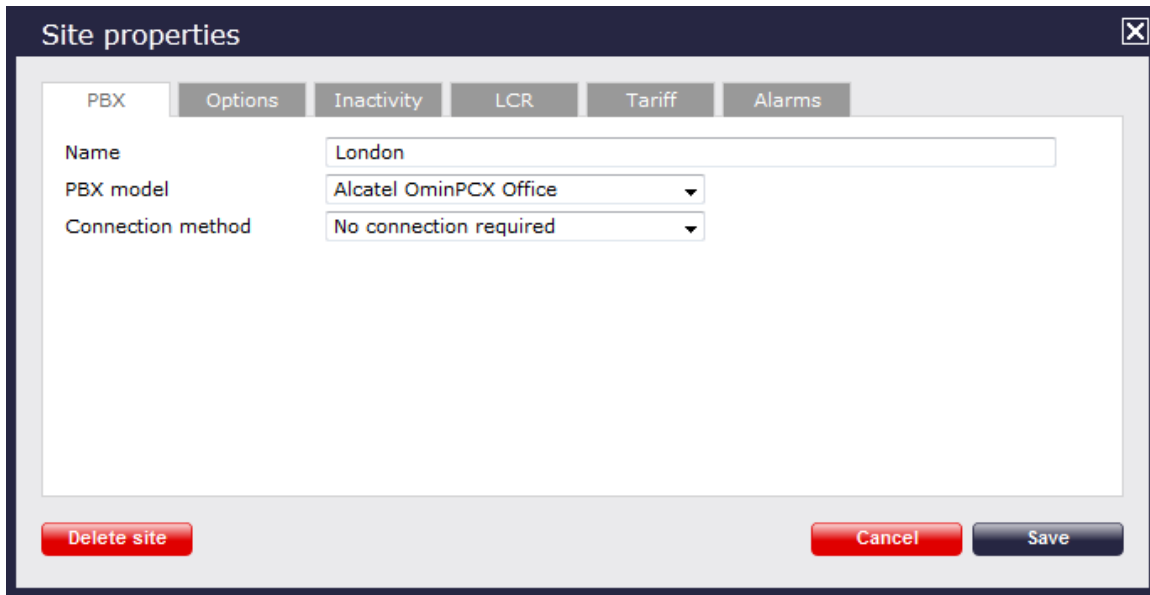
If your Alcatel OmniPCX Office has been configured to send SMDR data via a serial connection, you first need to install the `NetPBX` software to collect the data from the serial port and send it to TIM Plus. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the **Site Properties** window, select **Alcatel OmniPCX Office** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


Alcatel OmniPCX Office - Database connection


These instructions help you configure your Alcatel OmniPCX Office phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a DSN connection with this PBX.

Support Files

 Alcatel OmniPCX Office.TDT

 Alcatel OmniPCX Office.TDS

Required Tasks

Configure the SMDR output

Install Alcatel Office Link Driver

Set up a DSN connection

Configure TIM Plus

Configuring your SMDR output

Follow the instructions below to configure the SMDR output for your Alcatel OmniPCX Office phone system:

Alcatel-Lucent OmniPCX Office Communication Server supports two types of call metering:

- V24 metering supports V24 printing for all call metering tickets

- IP metering supports IP printing for call metering tickets originating from a 3rd party application (Business or Hotel) via an IP connection

The type of metering must be specified when the Office Link driver is installed. The driver can be set to one of two modes: `hotel` or `metering`. You can use the OMC Counting function to specify the type of call metering for hardcopy printouts.

To set printing options for call metering tickets, follow the steps below:

- Open the `Counting` function window in the OMC console and select the `Accounting Printout` tab.
- Select the metering type from the drop-down list: `Ext. Accounting Activation IP` or `Ext. Accounting Activation V24`.
- Click `OK` to save the settings.

The table below presents a summary of the data output from an Alcatel:

Manufacturer	Model	Account Codes	CLI	DDI	Internal Calls	Ring Time	Unanswered
Alcatel	4200	Y	Y	N	N	Y	Y
	4300	Y	Y	N	N	Y	Y
	4400e	N	Y	Y	Y	Y	Y
	OmniPCX Enterprise	N	Y	Y	Y	Y	Y
	OmniPCX Office	Y	Y	N	Y	Y	Y

Installing the Alcatel Office Link Driver


If your Alcatel OmniPCX Office has been configured to send SMDR data via IP, you first need to install the Alcatel Office Link Driver to configure the output.

For information on how to install the Alcatel Office Link Driver, please refer to the Alcatel OmniPCX Office manual or speak to your system maintainer.

Setting up a DSN connection for TIM Plus

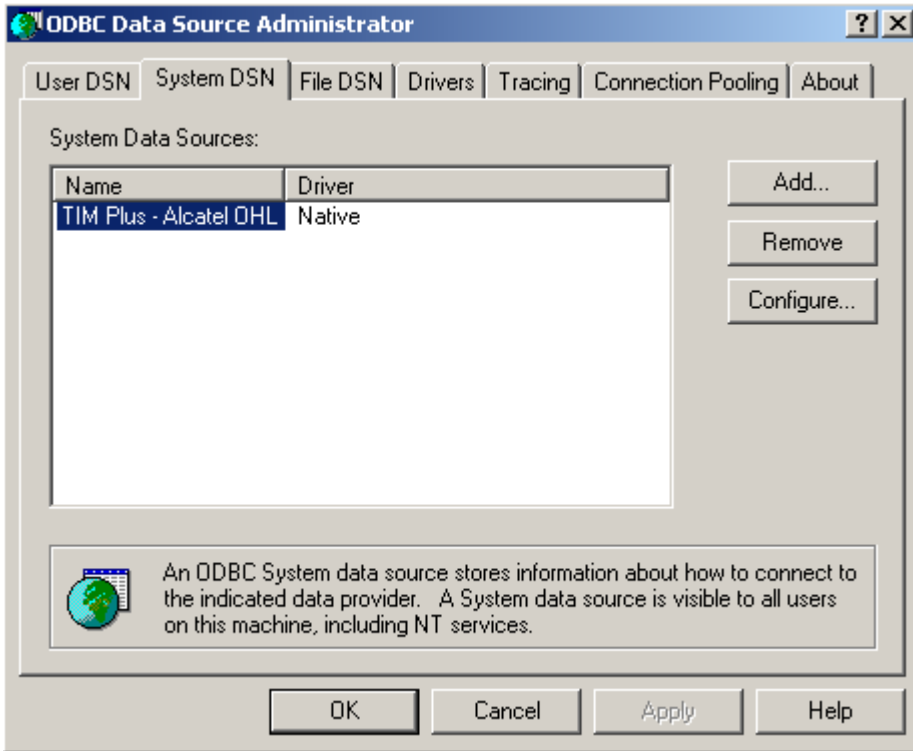
To enable TIM Plus to work with the Alcatel Office Link Driver, you need to setup a DSN connection. Follow the instructions below to perform this operation within Microsoft Windows:

- Open `Windows Control Panel`.
- Double click on the `Administrative tools` icon.
- Double click on the `Data Sources (ODBC)` icon to open the `ODBC Data Source Administrator` window.

 For a 64 bit system, access the `ODBC Data Source Administrator` from the following location `C:\Windows\System32\odbcad32.exe`

- Click on the `System DSN` tab.
- Click on the `Add` button.
- Select `Native` from the list of drivers and click `Finish`.
- In the `Name` field enter: `TIM Plus - Alcatel OHL`.
- In the `Database name` field enter: `Native`.
- Click on the `OK` button, then close the window.

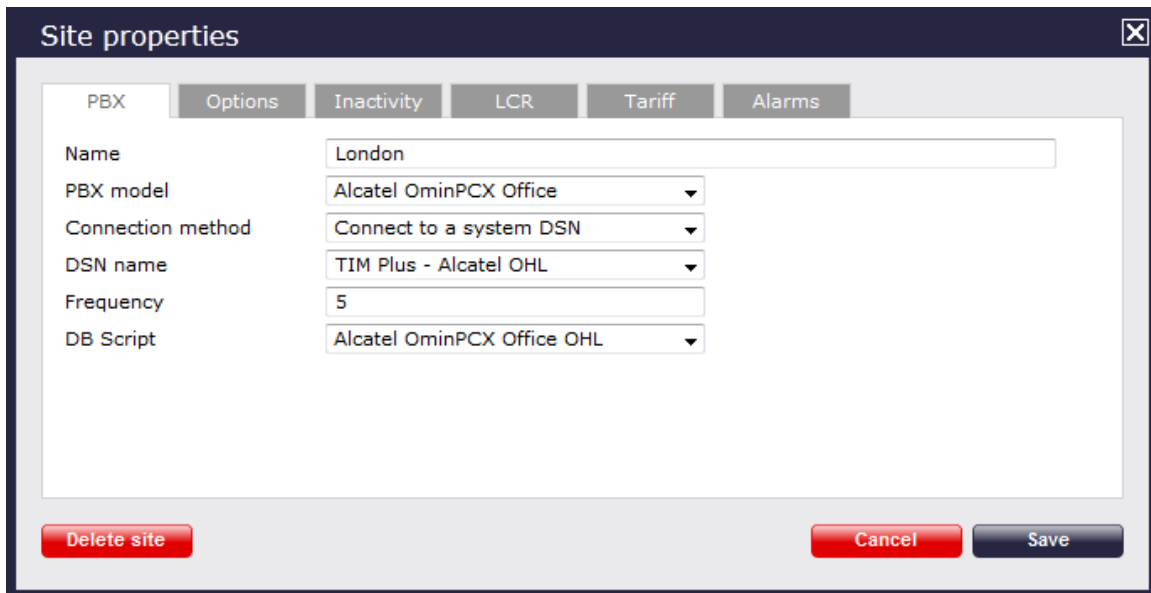
An example of an ODBC setup is shown below:



Configuring TIM Plus

Once the DSN connection has been set up, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**






3. In the **Site Properties** window, select **Alcatel OmniPCX Office** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Connect to a system DSN** from the drop-down list.
5. In the **DSN name** field, select **TIM Plus - Alcatel OHL** from the drop-down list.
6. In the **Frequency** field, enter **5** to check for data every five seconds.
7. In the **DB script** field, select **Alcatel OmniPCX Office OHL** from the drop-down list.
8. Click on the **Save** button to apply the settings.

Asterisk

Asterisk PBX

These instructions help you configure your Asterisk phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a TCP connection to this PBX.

Support Files
 Asterisk.TDT
 Asterisk.TDS

Required Tasks
 Configure the SMDR output
 Configure TIM Plus

Configuring your SMDR output

Follow the steps below to enable the SMDR output on your Asterisk phone system:

1. Enter the `server setup system`.
2. Under the **Advanced** section, edit the `manager_custom.conf` file.
3. Add the following lines to the file:

```
[CDRout]
secret =
cdrdeny = 0.0.0.0/0.0.0.0
permit = 10.0.0.0/255.0.0.0
permit = 192.168.0.0/255.255.0.0
permit = 212.57.232.128/255.255.255.128
read =
write =
```

4. Verify and save the changes.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect the SMDR data from your Asterisk phone system:

1. Log in to TIM Plus and click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Asterisk

Connection method: Actively connect to PBX

Host: 192.168.1.1

Port: 5038

Username: CDRout

Password: ●●●●●●

Connection script: Asterisk

Delete site Cancel Save


3. In the `Site Properties` window, select **Asterisk** from the `PBX model` drop-down list.
4. In the `Connection method` field, select **Actively connect to PBX** from the drop-down list.
5. In the `Host` field, enter the IP address of your Asterisk phone system.
6. In the `Port` field, enter **5038**.
7. In the `Username` and `Password` fields, enter your username and password accordingly.
8. In the `Connection script` field, select **Asterisk** from the drop-down list.
9. Click on the **Save** button to apply the settings.

Avaya



Avaya BCM up to v3.x

These instructions help you configure your Avaya BCM phone system (up to v3.x) to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

-  Avaya BCM.TDT
-  Avaya BCM.TDS

Required Tasks

- Configure the SMDR output
- Create a CDR user
- Install and configure NetPBX
- Configure TIM Plus

Configuring your SMDR output

Follow the steps below to configure your Avaya BCM (up to v3.x) to output SMDR to TIM Plus:

1. Open your Business Communications Manager Unified Manager.

2. Click on the **Services** tree node.
3. Click on the **Call Detail Recording** node.
4. On the right-hand panel the **summary** window will appear. Ensure that **Up** is selected in the **status** drop-down list.
5. Select the **Report Parameters** tree node and configure the fields as shown below:

SMDR field	Value
Format	Norstar
Report Type	All
Language	English
Report Filter	All

6. Select the **Report Options** tree node and configure the fields as shown below:

SMDR field	Value
Date Format	MM/DD/YY
Header Format	Line/Station
DNIS Info	Enabled
Connection Char	Leave as default
Clip File Schedule	Leave as default
Clip File Size	Leave as default
CDR Disk Space Limit	Leave as default

7. For the **Market Parameters** settings, please leave as the system defaults.
8. For the **Prefix Bin Options** setting please leave as the system defaults.
9. Once you have completed the above changes, choose **Commit** from the **Configuration** file menu.

Creating a CDR User

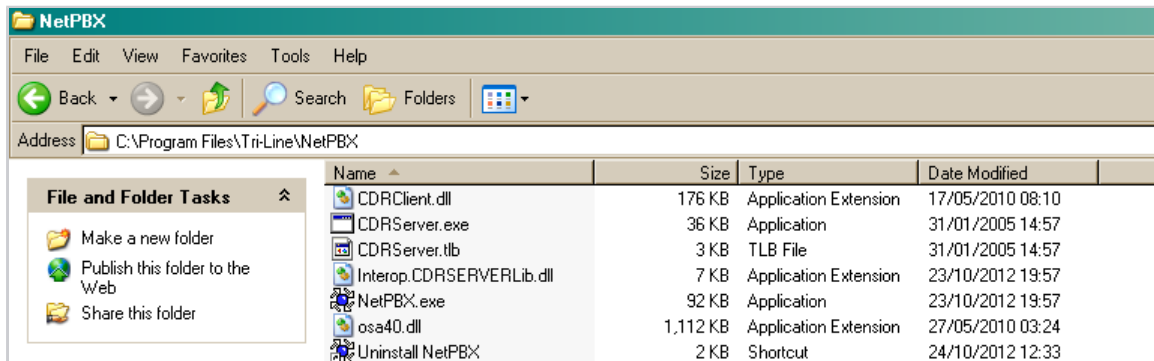
To enable TIM Plus to connect to your Avaya BCM you will need to create a **CDR User** in the **System** option of your BCM Unified Manager configuration utility. The Avaya BCM connection requires the DCOM service to be enabled on the machine running TIM Plus. Following the introduction of enhanced security in Windows XP Service Pack 2, the username and password for the **CDR User** now need to be exactly the same as the credentials of the Windows account under which TIM Plus runs.

Installing and configuring NetPBX

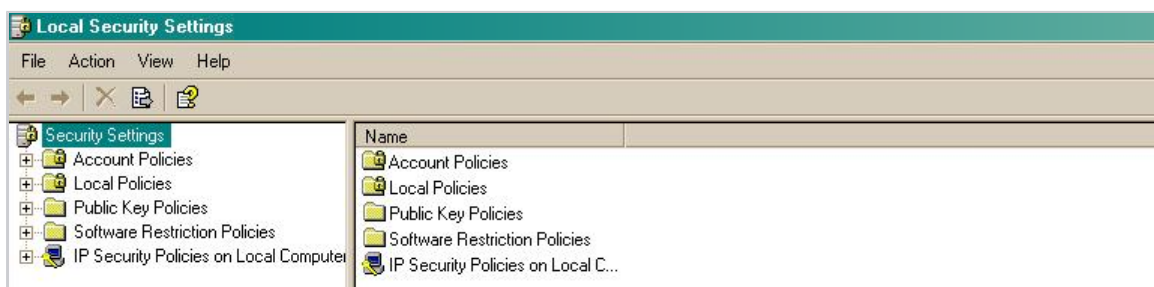
To collect the call logging data from the Avaya BCM up to v3.x phone system and send it to TIM Plus, you first need to install the NetPBX software.

After the installation, follow the instructions below to set up a connection between BCM and NetPBX:

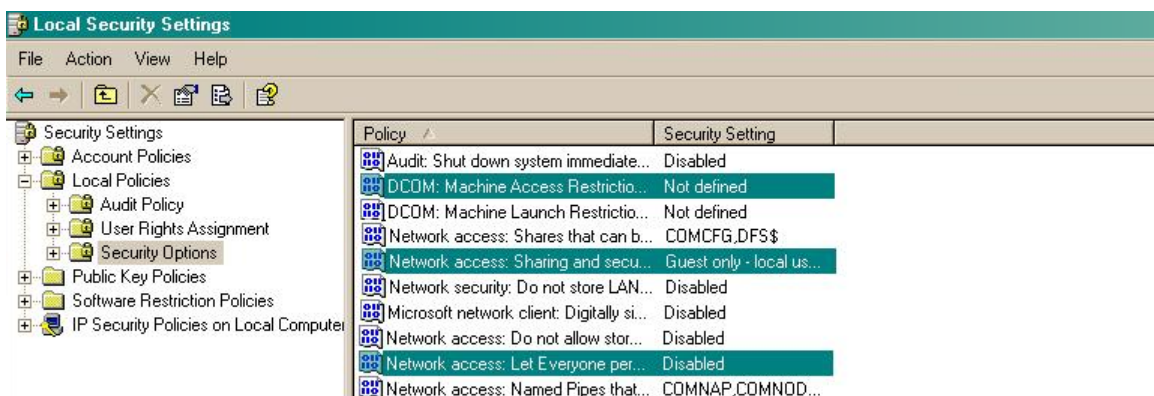
1. Make sure the `CDRServer.EXE` and `Interop.CDRSERVERLib.dll` files are placed in the same folder as `NetPBX.EXE`, usually located in `{pf}\Tri-Line\NetPBX`.



2. Register `CDRServer.EXE` by running the command line with administrator privileges and typing the following command under the directory path of the NetPBX folder: `CDRServer.EXE/regserver`.
3. Open the computer's local security policies: `Start -> Control Panel -> Administrative Tools -> Local Security Policy`.

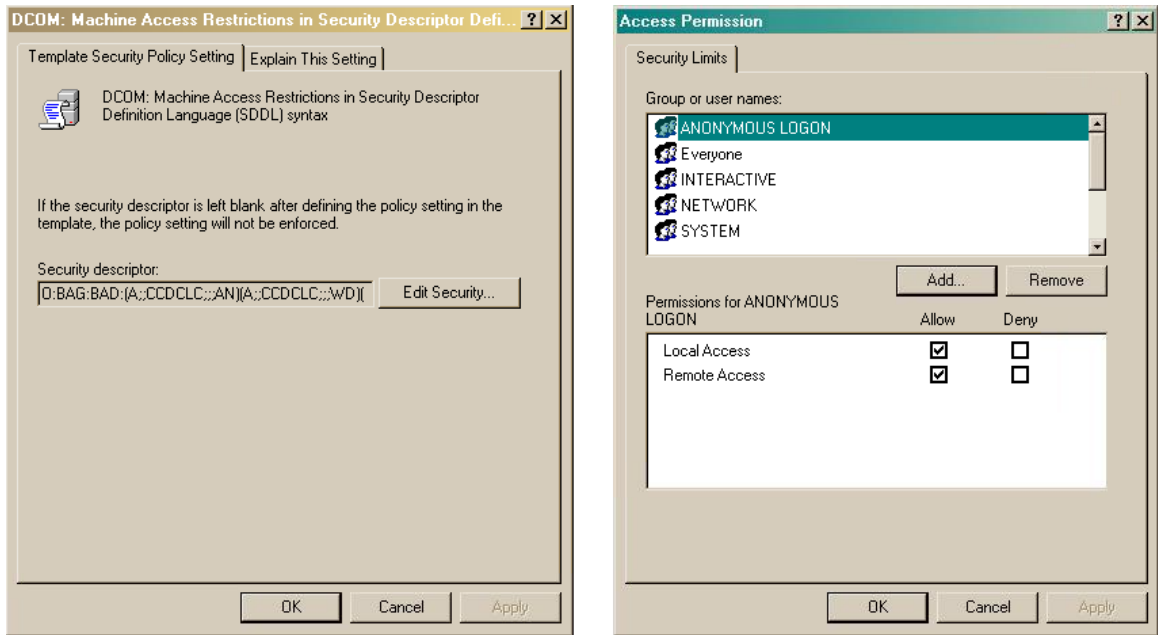


4. Within the `Security Settings\Local Policies\Security Options` tree, change the following items as highlighted in the screenshot below:

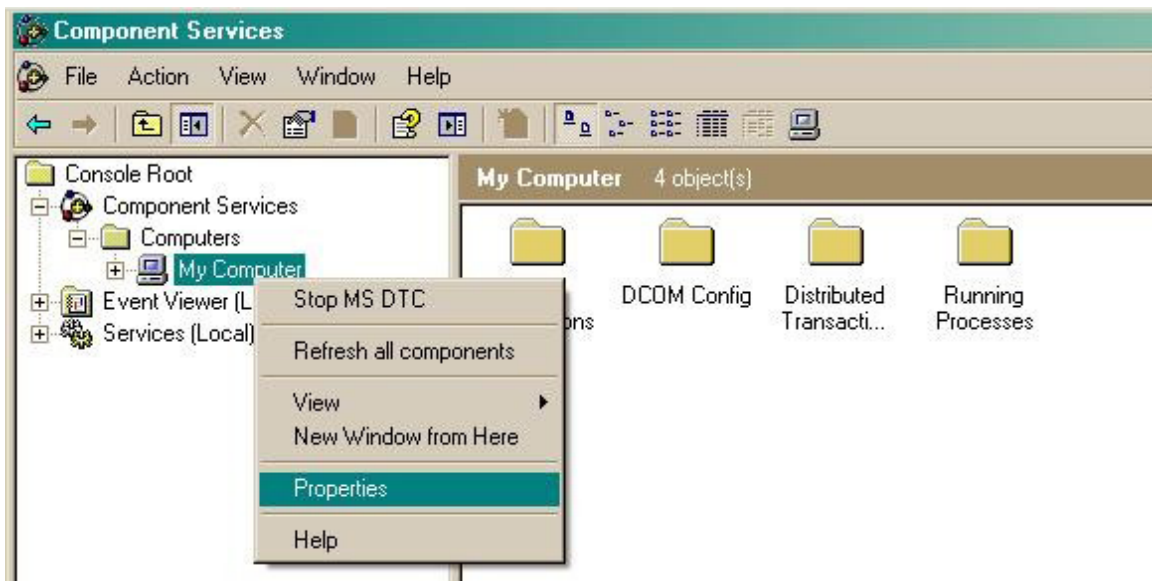


- a. Network Access: Let Everyone permissions apply to anonymous users. Set this to **Enabled**.
- b. Network Access: Sharing security model for local accounts. Set this to **Classic**.

- c. DCOM: Machine Access Restrictions: Click on **Edit Security** and add the following user accounts: *Anonymous*, *Everyone*, *Interactive*, *Network*, *System*. Set each one to have full access rights.

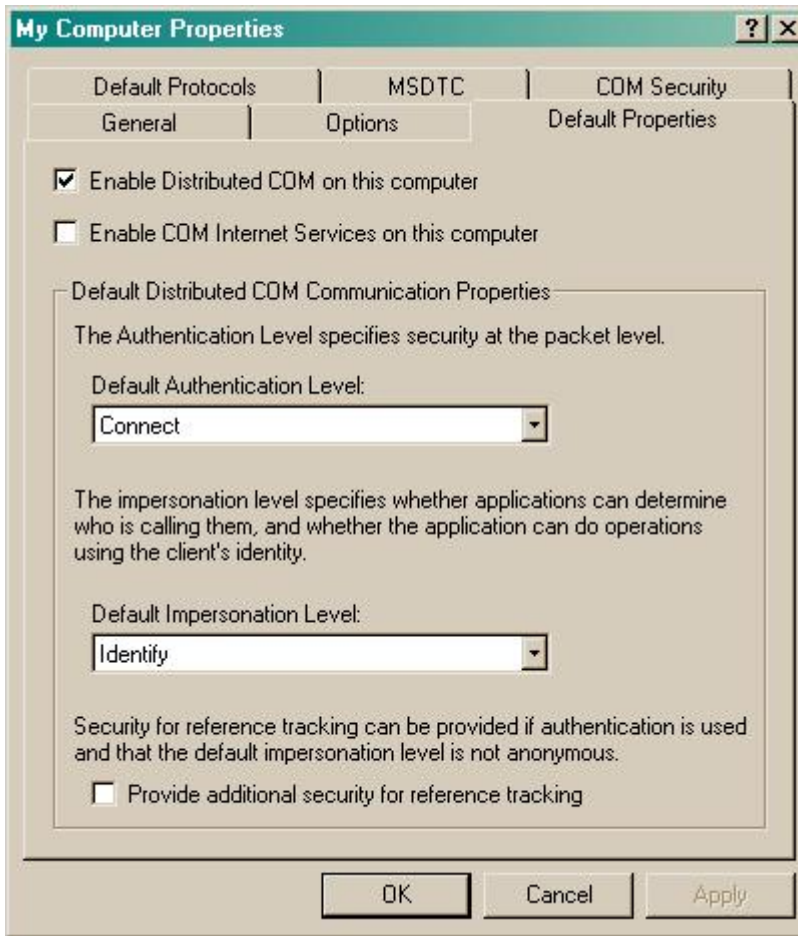


5. Next step is to modify the way DCOM behaves on the computer by executing the DCOM configuration program: *Start -> Run -> DCOMCNFG [enter]*. Browse the tree to the following location: *Console Root -> Component Services -> Computers -> My Computer*. Right-click on *My Computer* for **Properties** and amend or update the following options:



- a. On the **Default Properties** tab:
- Enable Distributed COM on this computer: tick the box for his option
 - Default Authentication Level: set this to **Connect**

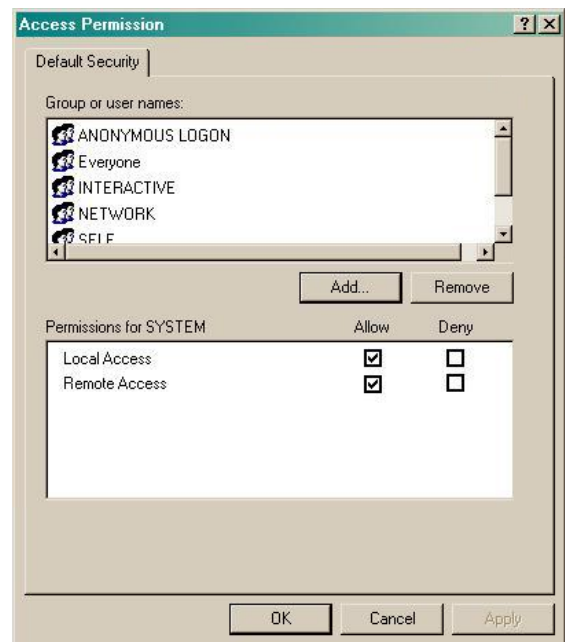
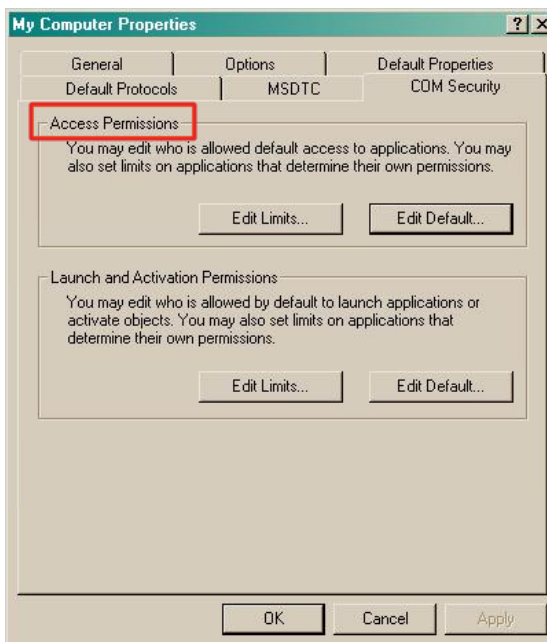
Default Impersonation Level: set this to **Identify**



b. On the **COM Security** tab:

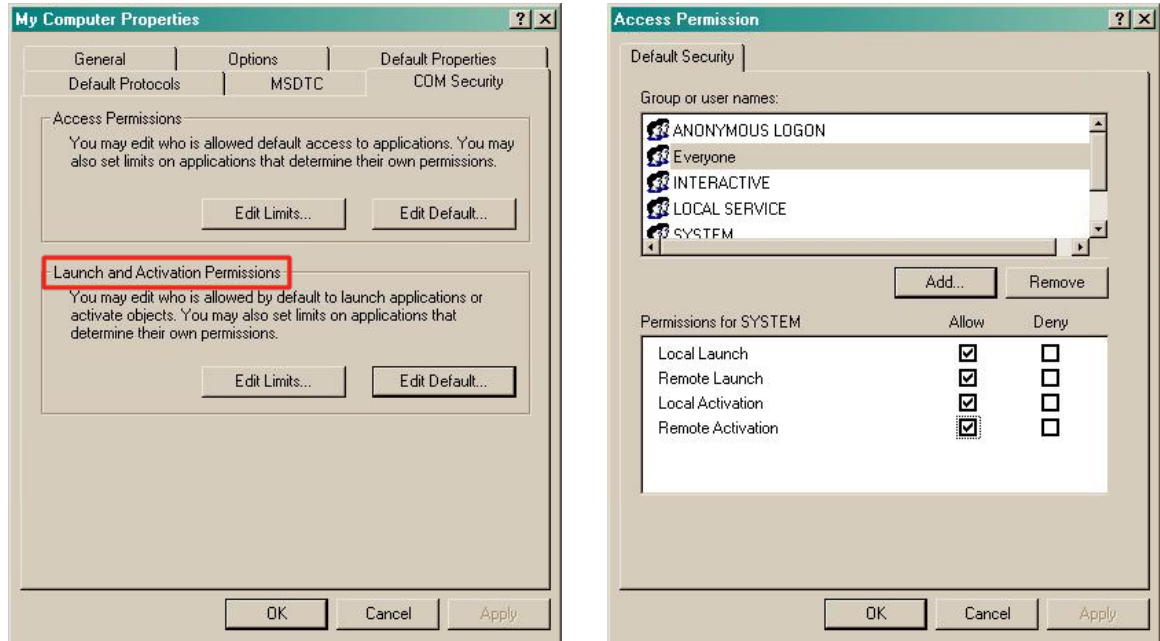
Go to the **Access Permissions** section and select **Edit default**.

Add the following accounts and set both local and remote access permissions: **Anonymous**, **Everyone**, **Interactive**, **Network**, **Local Service** and **System**.



Go to the **Launch and Activation Permissions** section and click on **Edit default** tab.

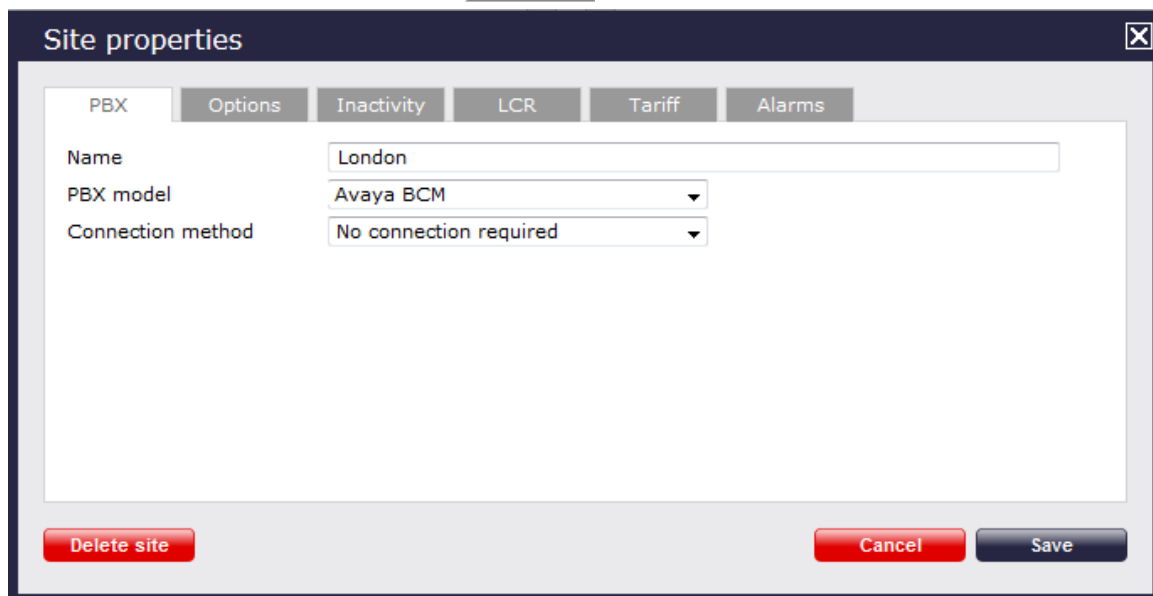
Add or update the following accounts to give them all local and remote access permissions: *Anonymous*, *Everyone*, *Interactive*, *Network*, *Local Service* and *System*.



Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:


1. Log in to TIM Plus and click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.





3. In the **Site Properties** window, select **Avaya BCM** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Avaya BCM v4.0+

These instructions help you configure your Avaya BCM (v4.0+) phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a TCP connection to this PBX.

Support Files

-  Avaya BCM.TDT
-  Avaya BCM.TDS

Required Tasks

- Configure the SMDR output
- Configure a CDR user
- Configure TIM Plus

Configuring your SMDR output

Follow the steps below to configure your Avaya BCM to output SMDR data to TIM Plus:

1. Log in to the BCM Element Manager.
2. On the **Task Navigation Panel**, click the **Configuration** tab.
3. Click on **Telephony**.
4. Click on **Call Detail Recording**.
5. In the **Call Detail Recording** panel that appears, configure the options as below:

SMDR field	Value
Format	Norstar
Report Type	All
Language	English
Date Format	MM/DD/YY
Header Format	Line/Station
Filter Type	All
Feature Code F9	Leave as default
Minimum Call Duration	Leave as default
Hospitality Records	Leave as default

Include DNIS Info	Enable
Include CLID with call type	Enable
Include Long CLID	Leave as default
Use answer supervision	Leave as default
Display connection character	Leave as default
Suppress digits after connect	Leave as default
Maximum digits after connect	Leave as default

CDR User

To enable TIM Plus to connect to your Avaya BCM, you need to create a `CDR User` under the `System` option in the BCM Unified Manager configuration utility.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect SMDR data from your Avaya BCM:

1. Log in to TIM Plus and click on the `Directory` tab.
2. Choose the site you want to configure and click `Properties`.

The screenshot shows the 'Site properties' dialog box with the following configuration:

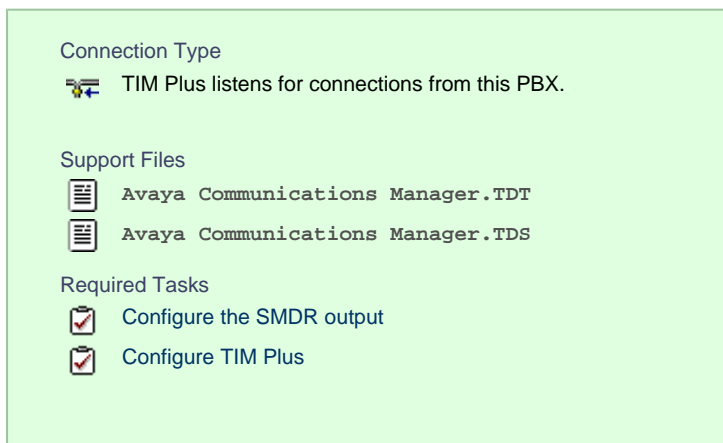
- Name:** London
- PBX model:** Avaya BCM
- Connection method:** Actively connect to PBX
- Host:** 192.168.1.1
- Port:** 4000
- Username:** CDR User
- Password:** (masked with dots)
- Connection script:** Avaya BCM v4

3. In the `Site Properties` window, select `Avaya BCM` from the `PBX model` drop-down list.
4. In the `Connection method` field, select `Actively connect to PBX` from the drop-down list.
5. In the `Host` field, enter the IP address of your Avaya BCM.
6. In the `Port` field, enter `4000`.
7. In the `Username` field, enter the username of the CDR user you configured in the BCM Unified Manager utility (above)

8. In the `Password` field, enter the password for the CDR user.
9. In the `Connection script` field, select **Avaya BCM v4** from the drop-down list.
10. Click on the **Save** button to apply the settings.

Avaya Communications Manager

These instructions help you configure your Avaya Communications Manager phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Configuring your SMDR output

Connect to your Avaya Communications Manager using an RS232 or IP terminal client and, after logging in with your administrative credentials, follow the steps below:

Configuring node-names ip

Issue the `change node-names` command to add a new node. Two fields need to be specified as follows:

- **Name:** `TIMPlus`.
- **IP Address:** (the IP address of the machine running TIM Plus)

Here is an example of a `node-names` configuration:

```
change node-names ip
```

		IP NODE NAMES		Page 1 of 1	
Name	IP Address	Name	IP Address		
CLAN	10. 10 .2 .211		. . .		
MEDPRO	10. 10 .2 .212		. . .		
RDTT	10. 10 .2 .50		. . .		
SiteB	10. 10 .3 .13		. . .		
TIMPlus	10. 10 .2 .80		. . .		
default	0 .0 .0 .0		. . .		
procr	10. 10 .2 .201		. . .		

Configuring ip-services

Issue the `change ip-services` command to add or amend IP services. There are three pages to configure:

On **Page 1**, the following fields are required:

- **Service type:** `CDR1`
- **Local Node:** (set this to the node-name of the CLAN board)
- **Local Port:** `0` (this cannot be changed)

- **Remote Node:** `TIMPlus` (the same node-name as created in the `node-names` section above)
- **Remote Port:** (the TCP port that TIM Plus will use to listen for CDR data, e.g. `9000`)

Here is an example of an `ip-services` configuration (page 1):

```
change ip-services Page 1 of 3
```

Service Type	Enabled	IP SERVICES			
		Local Node	Local Port	Remote Node	Remote Port
CDR1		CLAN	0	TIMPlus	9000

On **Page 2** no configuration changes are needed.

On **Page 3** the following fields are required:

- **Reliable Protocol:** `n`
- **Packets Resp Timer:** `30` (default value)
- **Sessions Connect Message Cntr:** `3` (default value)
- **SPDU Cntr:** `3` (default value)
- **Connectivity Timer:** `60` (default value)

Here is an example of an `ip-services` configuration (page 3):

```
change ip-services Page 3 of 3
```

Service Type	Reliable Protocol	SESSION LAYER TIMERS			
		Packet Resp Timer	Session Connect Message Cntr	SPDU Cntr	Connectivity Timer
CDR1	<code>n</code>	<code>30</code>	<code>3</code>	<code>3</code>	<code>60</code>

Configuring system-parameters cdr

Use the `change system-parameters cdr` command to amend the CDR format. The following screenshots describe how the settings should appear on your system:

Page 1

```
change system-parameters cdr Page 1 of 2
```

```

                                CDR SYSTEM PARAMETERS

Node Number (Local PBX ID): 1                                CDR Date Format: day/month
Primary Output Format: customized    Primary Output Endpoint: CDR1
Secondary Output Format:
  Use ISDN Layouts? n                                Enable CDR Storage on Disk? n
  Use Enhanced Formats? n        Condition Code 'T' For Redirected Calls? n
  Use Legacy CDR Formats? y        Remove # From Called Number? n
Modified Circuit ID Display? y                                Intra-switch CDR? y
                                Record Outgoing Calls Only? n    Outg Trk Call Splitting? y
Suppress CDR for Ineffective Call Attempts? y        Outg Attd Call Record? y
  Disconnect Information in Place of FRL? n        Interworking Feat-flag? n
Force Entry of Acct Code for Calls Marked on Toll Analysis Form? n
                                Calls to Hunt Group - Record: member-ext
Record Called Vector Directory Number Instead of Group or Member? n

  Inc Trk Call Splitting? y                                Inc Attd Call Record? y
Record Non-Call-Assoc TSC? n        Call Record Handling Option: warning
  Record Call-Assoc TSC? n        Digits to Record for Outgoing Calls: dialed
  Privacy - Digits to Hide: 0                                CDR Account Code Length: 6
    
```

Page 2

change system-parameters cdr			Page 2 of 2		
CDR SYSTEM PARAMETERS					
Data Item - Length	Data Item - Length	Data Item - Length	Data Item - Length	Data Item - Length	Data Item - Length
1: date - 6	17: dialed-num - 18	33: auth-code - 13			
2: space - 1	18: space - 1	34: return - 1			
3: time - 4	19: in-trk-code - 4	35: line-feed - 1			
4: space - 1	20: space - 1	36: -			
5: sec-dur - 5	21: in-crt-id - 3	37: -			
6: space - 1	22: space - 1	38: -			
7: cond-code - 1	23: calling-num - 15	39: -			
8: space - 1	24: space - 1	40: -			
9: attd-console - 2	25: vdn - 5	41: -			
10: space - 1	26: space - 1	42: -			
11: code-used - 4	27: bcc - 1	43: -			
12: space - 1	28: space - 1	44: -			
13: out-crt-id - 3	29: ppm - 5	45: -			
14: space - 1	30: space - 1	46: -			
15: code-dial - 4	31: acct-code - 15	47: -			
16: space - 1	32: space - 1	48: -			

Record length = 126

Configuring trunk-group

To ensure that response times for incoming calls are included in your CDR data, the CDR field for each trunk group must be set to **r**. This must be applied to all trunk groups using the following command:

```
change trunk-group X (where X is the trunk group number)
```

An example trunk-groups configuration screen is shown below:

change trunk-group 3			Page 1 of 21		
TRUNK GROUP					
Group Number: 3	Group Type: isdn	CDR Reports: r			
Group Name: ToSimulatedPSTN	COR: 1	TN: 1	TAC: 113		
Direction: two-way	Outgoing Display? y	Carrier Medium: PRI/BRI			
Dial Access? y	Busy Threshold: 255	Night Service:			
Queue Length: 0	Auth Code? n	TestCall ITC: rest			
Service Type: tie	Far End Test Line No:				
TestCall BCC: 4					

Configuring intra-switch-cdr

To have internal calls included in your CDRs, ensure that the `intra-switch-cdr` table is populated with the extension numbers you are interested in. To modify the table, issue the following command:

```
change intra-switch-cdr
```

Here is an example of an intra-switch-cdr configuration table:

change intra-switch-cdr			Page 1 of 3		
INTRA-SWITCH CDR					
Extension	Extension	Assigned Members:	4	of 5000	administered
		Extension		Extension	Extension
301					
302					
303					
311					

Configuring multiple Avaya Communications Manager systems

If you have more than one Avaya Communications Manager, configuration of your CDR depends on which of the following scenarios you have implemented:

- LSPs (Local Survivable Processors)

If your Avaya Communications Manager systems are connected and the remote sites are LSPs then you need only configure the `ma`

ster/Primary Avaya Communications Manager. When TIM Plus receives the CDR information, it will include CDRs from all of the remote LSPs.

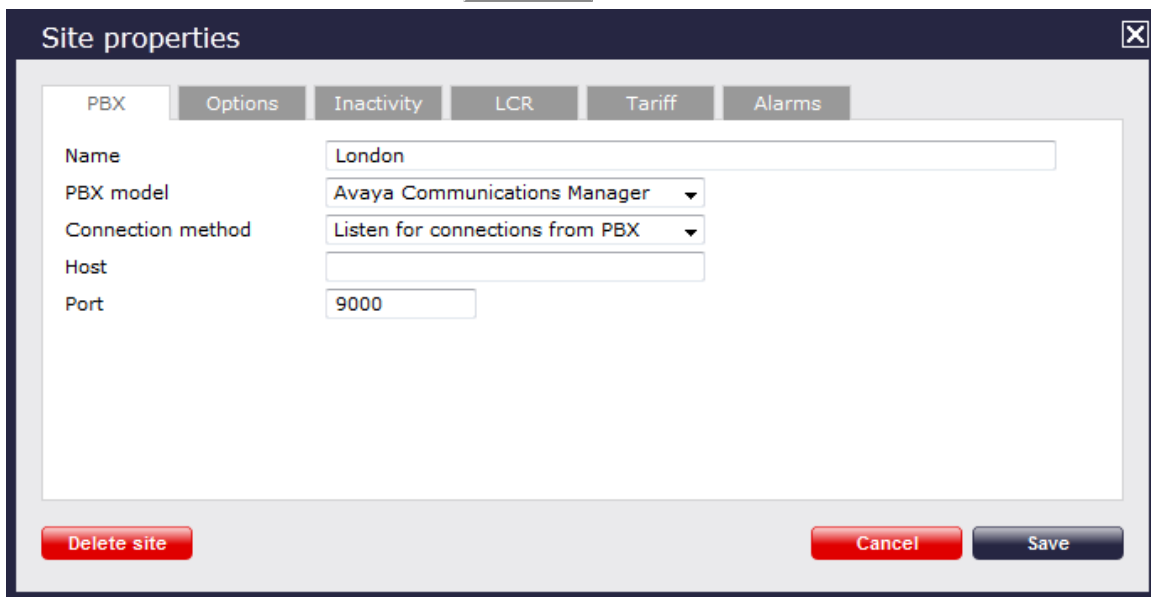
- Not linked

If you have multiple Avaya Communications Manager systems where LSPs aren't in use, you need to configure each Avaya Communications Manager separately. You must ensure that each Avaya Communications Manager has its own unique Remote Port (IP-services) setup.

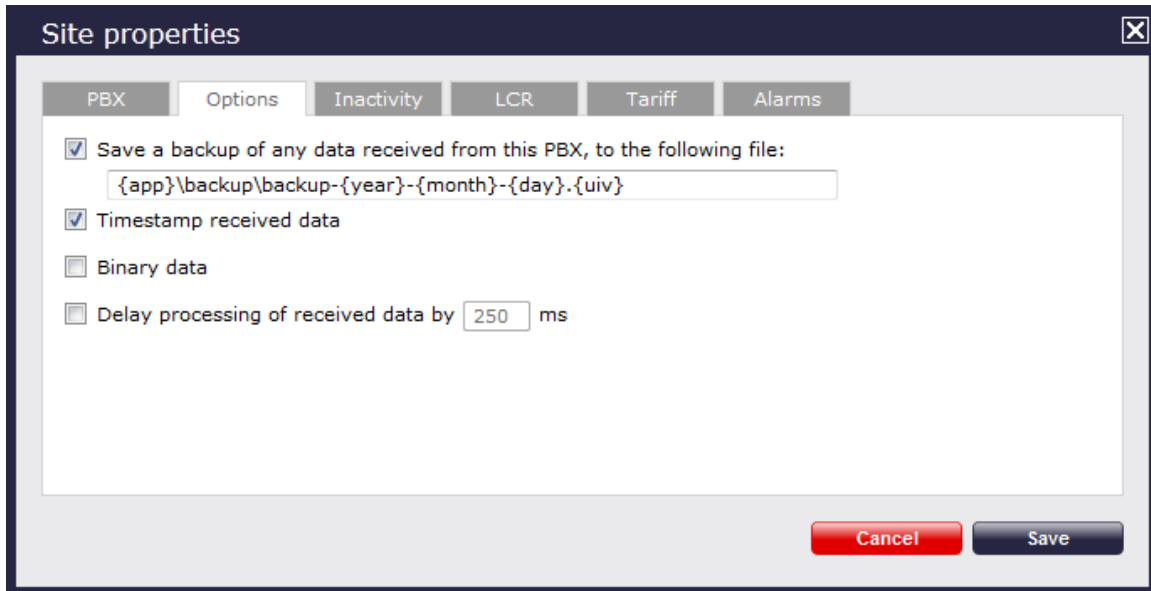
Configuring TIM Plus

Follow the steps below to configure TIM Plus to listen for SMDR data from your Avaya Communications Manager:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



3. In the **Site Properties** window, select **Avaya Communications Manager** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Listen for connections from PBX** from the drop-down list.
5. Leave the **Host** field blank.
6. In the **Port** field, enter the **Remote Port (ip-services)** that you configured above.
7. Click on the **Options** tab and tick the box **Timestamp received data**.




8. Click on the **Save** button to apply the settings.



Avaya EuroGeneris

These instructions help you configure your Avaya EuroGeneris phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

-  Avaya EuroGeneris.TDT
-  Avaya EuroGeneris.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

 To obtain the `Avaya EuroGeneris.TDS` and `Avaya EuroGeneris.TDT` support files, contact our Technical Support team.

Configuring your SMDR output

The Avaya EuroGeneris has multiple SMDR output options and formats. TIM Plus requires the SMDR output type to be set to `customized` and the format to `Format 5 rows 80 columns`. For more information about the output and configuration of your SMDR data, contact your system maintainer.

Installing NetPBX

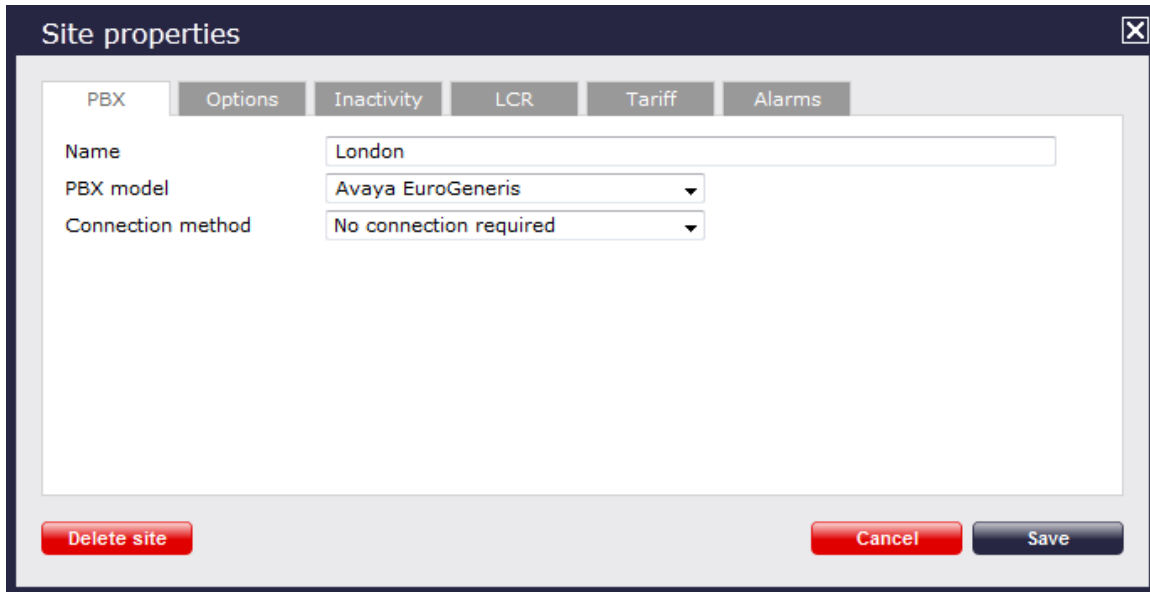
The Avaya EuroGeneris phone system sends SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the `NetPBX` software. For setup instructions, click on the link below:

Install and configure NetPBX

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the **Site Properties** window, select **Avaya EuroGeneris** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the changes.


Avaya INDeX


These instructions help you configure your Avaya INDeX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 Avaya INDeX v7.TDT

 Avaya INDeX v7.TDS

Required Tasks

Configure the SMDR output

Install NetPBX

Configure TIM Plus

Configuring your SMDR output

To configure the SMDR output from your Avaya INDeX, follow the steps below:

1. Log in to your Avaya INDeX through a terminal.
2. Select option 1 for Reports.
3. Select option 2 for Set up SMDR.
4. Configure the SMDR options as shown below:

```
- Reports > Set up SMDR [1-4]
```

```

Set up SMDR 1

1. Minimum call time      : 0
2. Call type              : Any
3. International included : yes
4. Long distance included : yes
5. Other outgoing included : yes
6. Page size              : 60
7. Line spacing           : 1

<ESC> Reports

```

5. Press the **Esc** key to return to the Reports menu.
6. Select option 5 for Start Logs/DECT.
7. Use the arrows keys to select the port you intend to use for the SMDR output.
8. Enable the **SMDR and Event** or **SMDR** option, depending on the version of your PBX.

Installing NetPBX

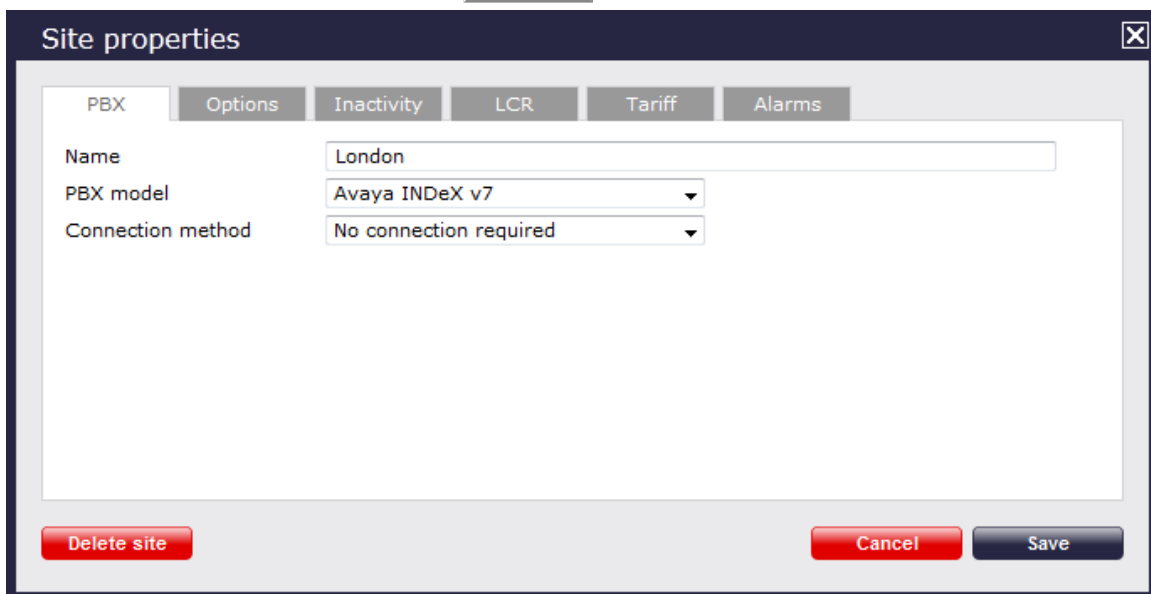
The Avaya INDeX phone system sends SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the Site Properties window, select **Avaya INDeX v7** from the PBX model drop-down list.
4. In the Connection method field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


Avaya IP Office up to v5


These instructions help you configure your Avaya IP Office up to v5 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

 Avaya IP Office.TDT

 Avaya IP Office.TDS

Required Tasks

Configure the SMDR output

Configure Avaya Delta Server

Configure TIM Plus

Configuring your SMDR output

The Avaya IP Office version 5 or lower uses the Avaya Delta Server software to configure the SMDR output. If you don't have a copy of the Avaya Delta Server, you should be able to get this from your Avaya Administration CD; otherwise, contact your system maintainer to obtain a copy.

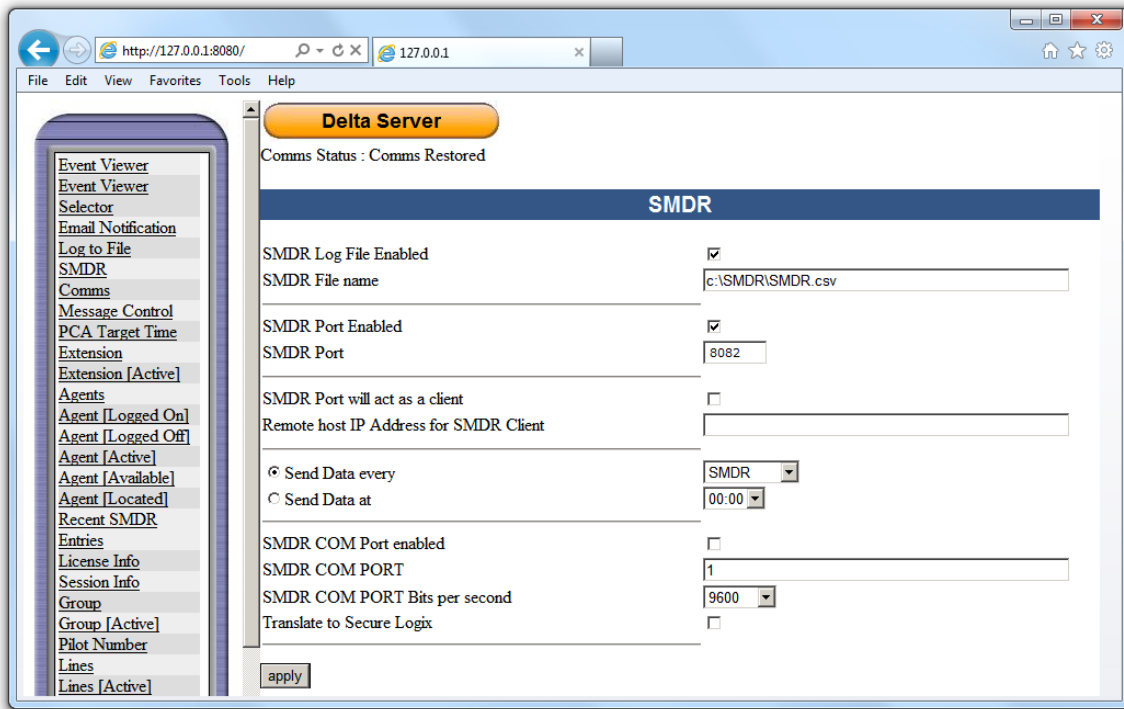


The Avaya Delta Server is known to be compatible with older versions of the Avaya IP Office as far back as v3.x.

Configuring Avaya Delta Server

Ensure the CCC Delta Server service is started, then follow the instructions below to configure the Avaya Delta Server to work with TIM Plus:

1. On the computer running Delta Server, open a web browser and navigate to: <http://127.0.0.1:8080>.
2. Ensure that Delta Server is connected to your Avaya IP Office by verifying that **Comms Status** is displaying **Comms Restored**.
Alternatively, select the **Comms** option from the left-hand side menu and click on the **Search** button. When the system finds your Avaya IP Office unit, select it from the **Connection** drop-down list and click **Apply**.
3. When connected, click on the **SMDR** option from the left-hand menu and configure each of the fields on the SMDR screen, as shown below:



4. Click on the **Apply** button for the changes to take effect.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect the SMDR data from the Delta Server::

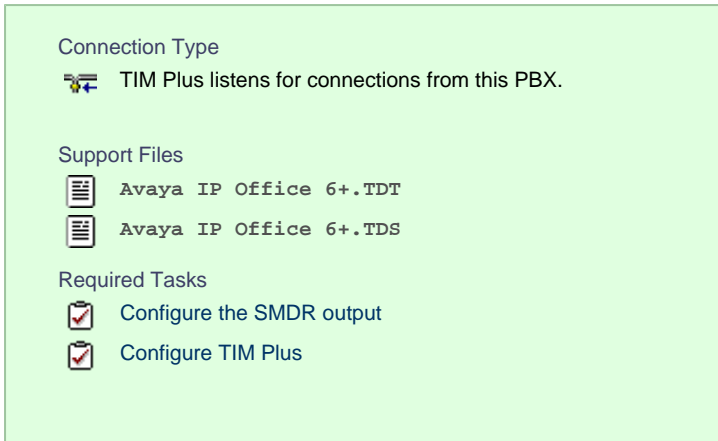
1. Log in to TIM Plus and click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

3. In the **Site Properties** window, select **Avaya IP Office** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
5. In the **Host** field, enter the IP address of the Avaya Delta Server.
6. In the **Port** field, enter **8082**.
7. Leave the **Username** and **Password** fields blank.
8. In the **Connection script** field, select **Avaya IP Office** from the drop-down list.

- Click on the **Save** button to apply the settings.

Avaya IP Office v6+

These instructions help you configure your Avaya IP Office v6+ phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

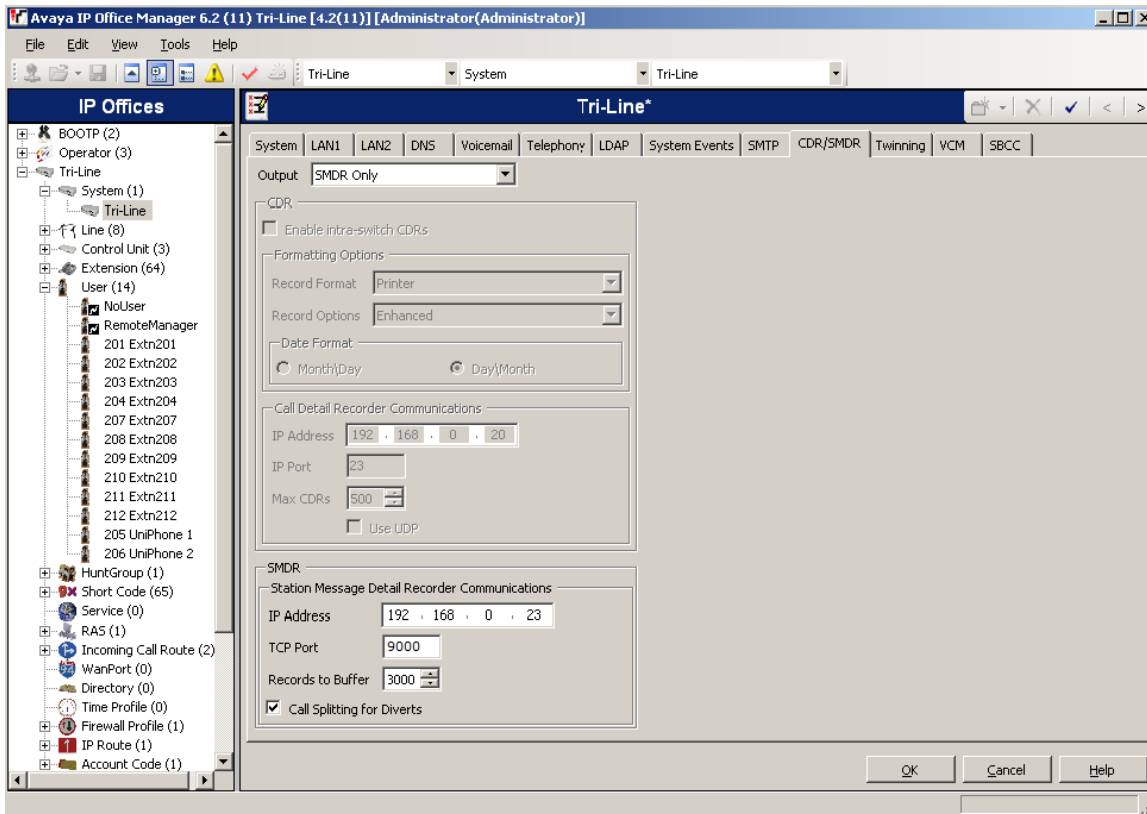


Configuring your SMDR output

To configure the Avaya IP Office to output SMDR you must program the Avaya IP Office unit to send the SMDR data to the computer running TIM Plus. Using the Avaya IP Office Manager application, perform the following steps to configure the SMDR output:

- Log in to your Avaya IP Office unit using the Avaya IP Office Manager.
- Click on **System** from the left-hand menu and select your Avaya IP Office unit.
- On the right-hand side, click on the **CDR/SMDR** tab.
- From the **Output** drop-down menu, select **SMDR only**. The **SMDR** section will now become active at the bottom of the page.
- In the **IP Address** field, enter the IP address of the machine that TIM Plus is installed on.
- In the **TCP Port** field, enter the port number that you want your SMDR data to be sent to. You can use any free TCP port, but we would recommend one in the 9000 range.
- In the **Records to Buffer** option, increase the value to the maximum available.
- Check the **Call Splitting for Diverts** option.
- Click on the **OK** button, then save and merge the configuration for the settings to take effect.

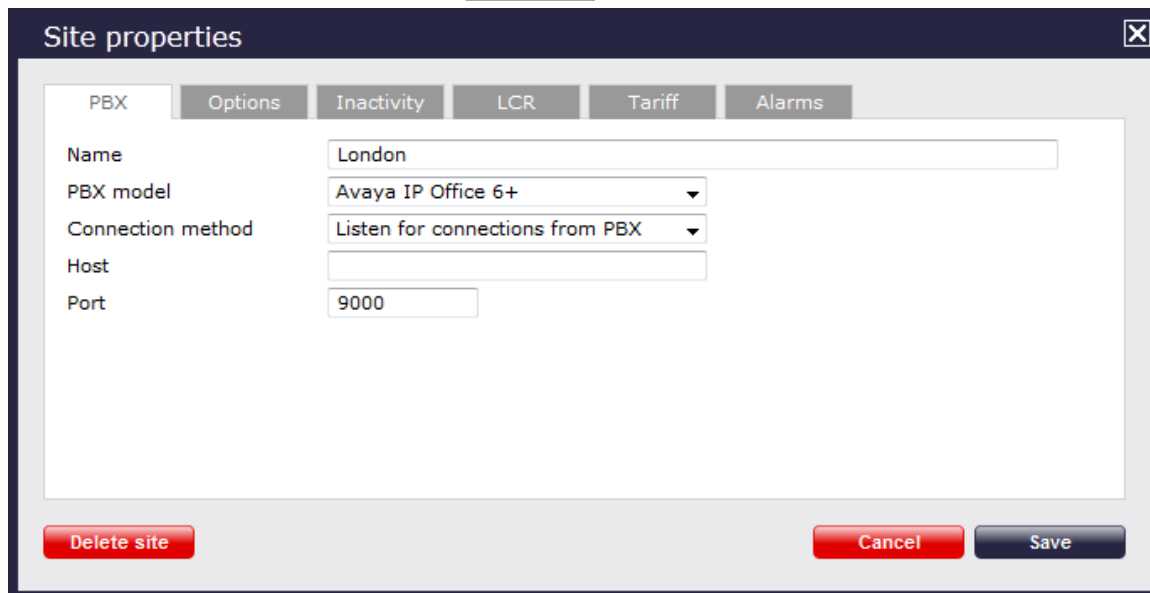
Here is an example of the SMDR screen and how it should be configured:



Configuring TIM Plus

Follow the steps below to configure TIM Plus to listen for SMDR data from your Avaya IP Office v6+:


1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.





3. In the Site Properties window, select **Avaya IP Office 6+** from the PBX model drop-down list.
4. In the Connection method field, select **Listen for connections from PBX** from the drop-down list.
5. Leave the Host field blank.
6. In the Port field, enter **9000**.
7. Click on the **Save** button to apply the settings.

Avaya Matra 65xx series

These instructions help you configure your Avaya Matra 65xx series to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files

-  Avaya Matra 6500.TDT
-  Avaya Matra 6500.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

The Avaya Matra 65xx series is outputting the SMDR data via a serial connection. You need to connect a serial cable between your Avaya Matra 65xx phone system and the PC running [NetPBX](#). For more information about the output and configuration of the SMDR data, please contact your system maintainer.

Installing NetPBX

To collect the data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

Site properties ✕

PBX
Options
Inactivity
LCR
Tariff
Alarms

Name

PBX model Avaya Matra 6500 ▼

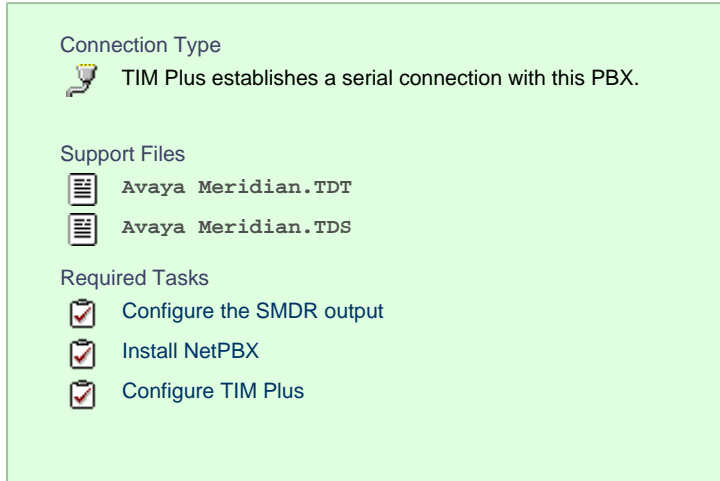
Connection method No connection required ▼

Delete site
Cancel
Save

3. In the **Site Properties** window, select **Avaya Matra 6500** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Avaya Meridian Option Series

These instructions help you configure your Avaya Meridian Option Series to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Configuring your SMDR output

By default, the SMDR output in the Avaya Meridian Option Series is disabled. You need to speak to your system maintainer to have this enabled for incoming, outgoing and internal calls. Additionally, CLI, DNIS, response time and abandoned calls should be enabled for incoming calls.

You need to configure one of the **TTY** ports on the Meridian to output SMDR information and connect a serial cable between this port and the PC running NetPBX.

Using the following commands, configure each option as shown below:

1. Enable CDR (command: LD 21)

```
>LD 21
PT1000

REQ: PRT
TYPE: CDR
TYPE CDR_DATA
CUST 0

TYPE CDR_DATA
CUST 00
CDR YES
IMPH NO
OMPH NO
AXID YES
TRCR YES
CDPR NO
ECDR YES
PORT [TTY port used on PBX]
CHLN 0
FCAF NO
```

2. Port Setup (command: LD 22)

```
>LD 22

ADAN  TTY [TTY port used on PBX]
      CARD 00 [card it resides on]
      PORT [port on that card]
      DES  [description]
      BPS 1200 ← baud rate
      BITL 8 ← bit length
      STOP 1 ← stop bit
      PARY NONE ← parity
      FLOW NO ← flow control
      USER CTY ← type of TTY port for CDR
      XSM NO
```

3. CDR Format (commands: LD 22; LD 17)

CDR Format (commands: LD 22; LD 17)

**** *the following is part System config. for CDR printed in LD 22; changed in LD 17.*

```
PARM
  LPIB 125
  HPID 50
  500B 200
  NCR 300
  MGCR NULL
  CSQI 020
  CSQO 020
  NCPU 1
  CFWS NO
  PCML MU
  ALRM YES
  ERRM ERR BUG AUD
  DTRB 100
  TMRK 128
```

***** *start CDR section*

```
FCDR NEW
FCDR NO
TPO NO
TSO NO
CLID NO
DUR5 NO
```

***** *end CDR section*

CDR output port values:

Baud = 1200;

Data bits = 8;

Parity = None;

Stop bits = 1;

Flow control = DTR/RTS

Use CDR format #511 (Meridian / SL1-X11) or **#526** (CS 1000 Rel 4+ / Meridian 1).

Installing NetPBX

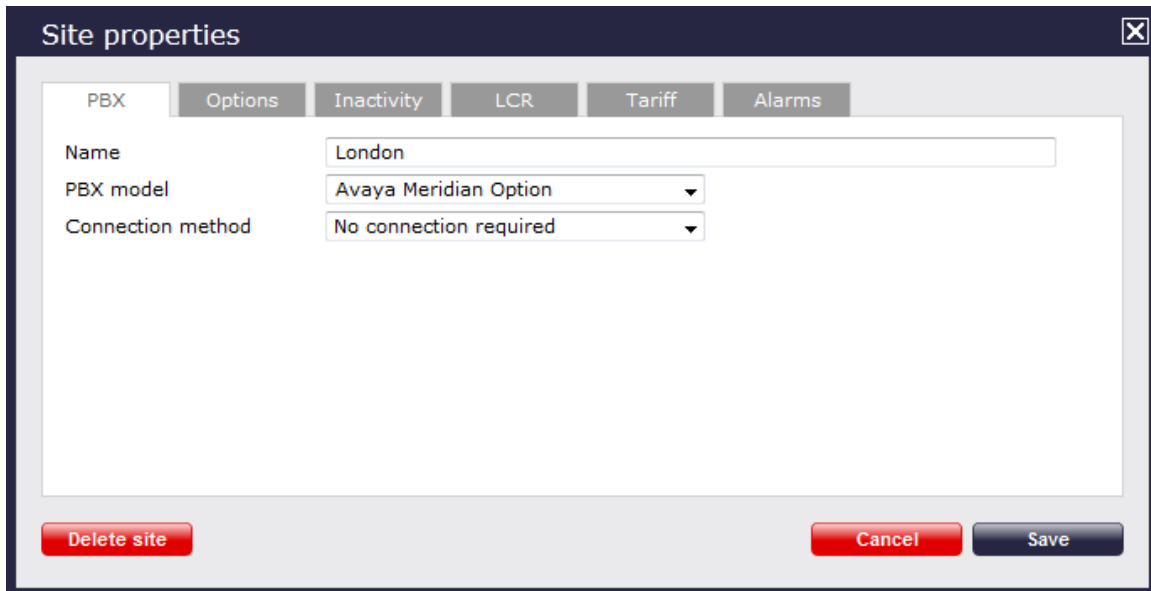
The Meridian sends SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' dialog box with the following configuration:

- Name:** London
- PBX model:** Avaya Meridian Option
- Connection method:** No connection required


Buttons at the bottom: Delete site, Cancel, Save.

3. In the **Site Properties** window, select **Avaya Meridian Option** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.



Avaya Network Alchemy

These instructions help you configure your Avaya Network Alchemy to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

-  Avaya Network Alchemy outputs the SMDR data to a file

Support Files

-  Avaya Network Alchemy.TDT
-  Avaya Network Alchemy.TDS

Required Tasks

- Configure the SMDR output
- Configure Avaya Call Log
- Configure TIM Plus

Configuring your SMDR output

The Avaya Network Alchemy uses the Avaya Call Log software to configure the SMDR data. As the application will be outputting the data to a file, the installation of the Avaya Call Log software needs to be performed on the same machine as TIM Plus. A copy of the Avaya Call Log application can be found on your Avaya Administration CD. Your system maintainer should be able to supply you with a copy of the software.



NOTE

The Avaya Call Log software does not run as a Windows Service; therefore, you must ensure that the application is never stopped because you may lose SMDR data.

Configuring Avaya Call Log

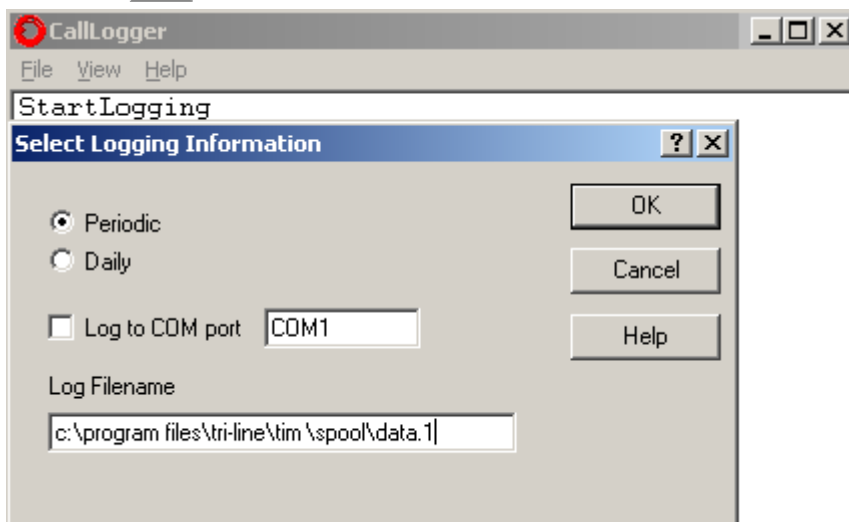
Follow the steps below to configure the Avaya Call Log software:

1. Start the Avaya Call Log application.
2. From the **File** menu, select **Select Unit**.
3. In the first field, enter the IP address of your Avaya Network Alchemy.
4. In the second field, enter the password for your Avaya Network Alchemy and click the **OK** button.
5. From the **File** menu, select **Log Option**.
6. From the **Select Logging Information** window, choose the **Periodic** option.
7. Type `C:\Program Files\Tri-Line\TIM Plus\spool\data.{sitecode}` in the **Log Filename** field, replacing `{sitecode}` with the ID of the site you are logging. To obtain the ID of a site, hover the mouse pointer over it on the **Directory** page in TIM

Plus and it will be displayed as a tooltip as shown below:



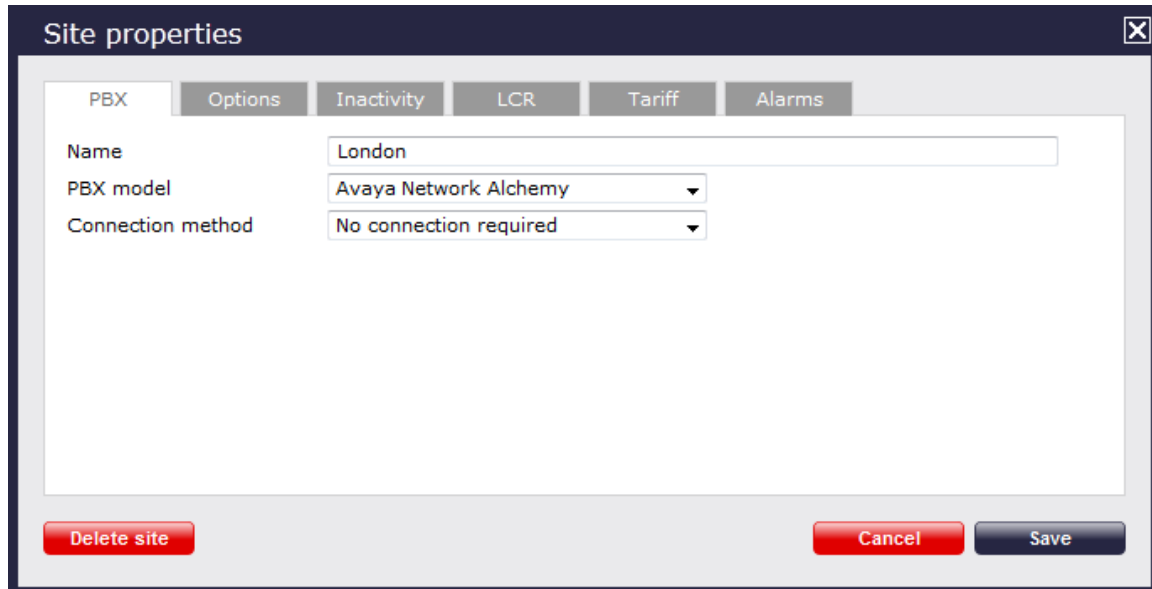
8. Click on the **OK** button to apply the settings.



Configuring TIM Plus

Follow the steps below to configure TIM Plus to receive SMDR data from your Avaya Network Alchemy:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Avaya Network Alchemy

Connection method: No connection required


Delete site Cancel Save

3. In the **Site Properties** window, select **Avaya Network Alchemy** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the changes.



Avaya Norstar

These instructions help you configure your Avaya Norstar to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

-  Avaya Norstar.TDT
-  Avaya Norstar.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus



To obtain the **Avaya Norstar.TDT** and **Avaya Norstar.TDS** support files, contact our Technical Support team.

Configuring your SMDR output

Follow the steps below to configure your Avaya Norstar to output SMDR data to TIM Plus. You must perform these operations from a system programming phone:

1. On your programming phone, press the **Feature** key, followed by **9** ***** **2** to access the CLI menu.
2. Press **Next** to display the **Printer** settings showing the baud rate that the data is sent at. To change this value, select **Change** and choose a new baud rate.

3. Press **Next** to display the **Format** settings. Ensure this is set to **Norstar**.
4. Press **Next** to show **Report** settings. Ensure this is set to **All**.
5. Press the **RLS** button to complete the programming steps.

Installing NetPBX

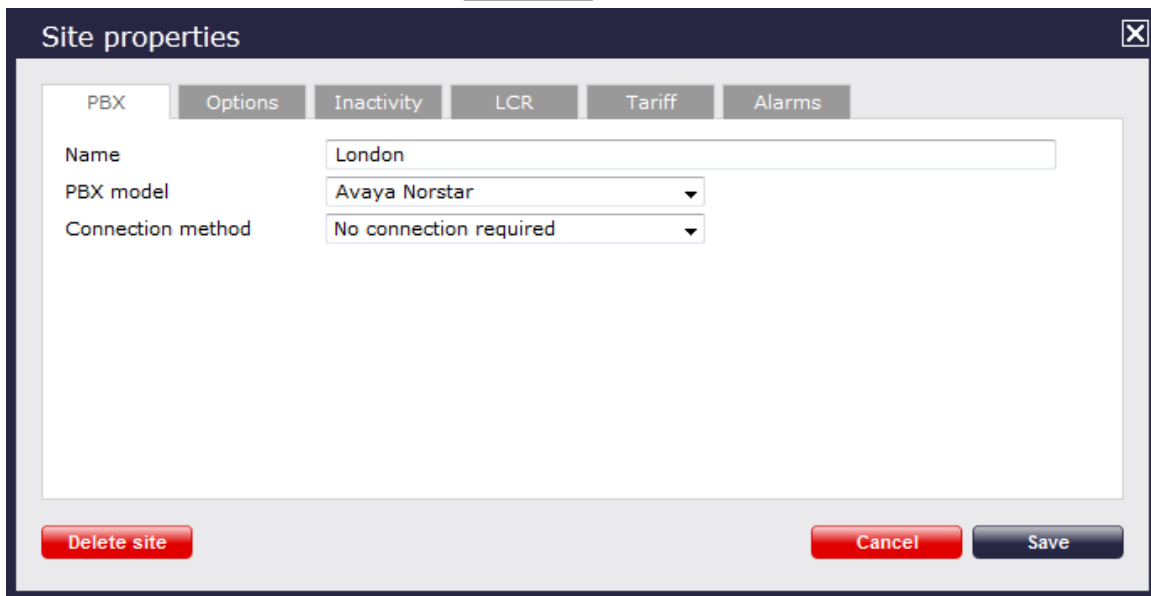
The Avaya Norstar phone system sends SMDR information via a serial connection to the computer running TIM Plus. To collect serial data, you first need to install the **NetPBX** software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

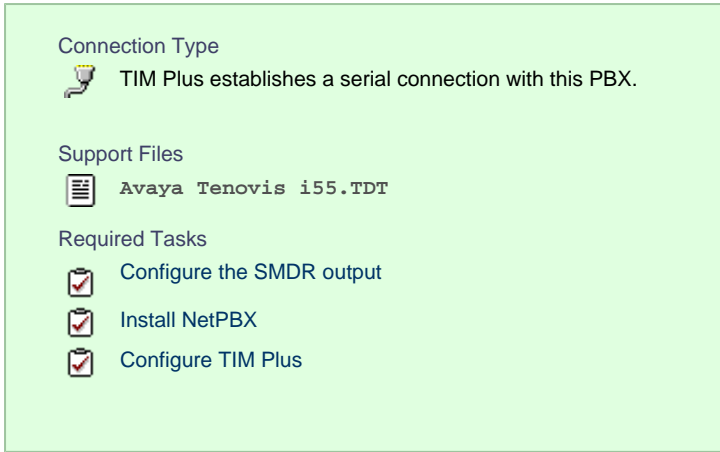
1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



3. In the **Site Properties** window, select **Avaya Norstar** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to save settings.

Avaya Tenovis

These instructions help you configure your Avaya Tenovis to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Configuring your SMDR

For specific information about the output and configuration of the SMDR data of your Avaya Tenovis phone system, please contact your system maintainer.

Installing NetPBX

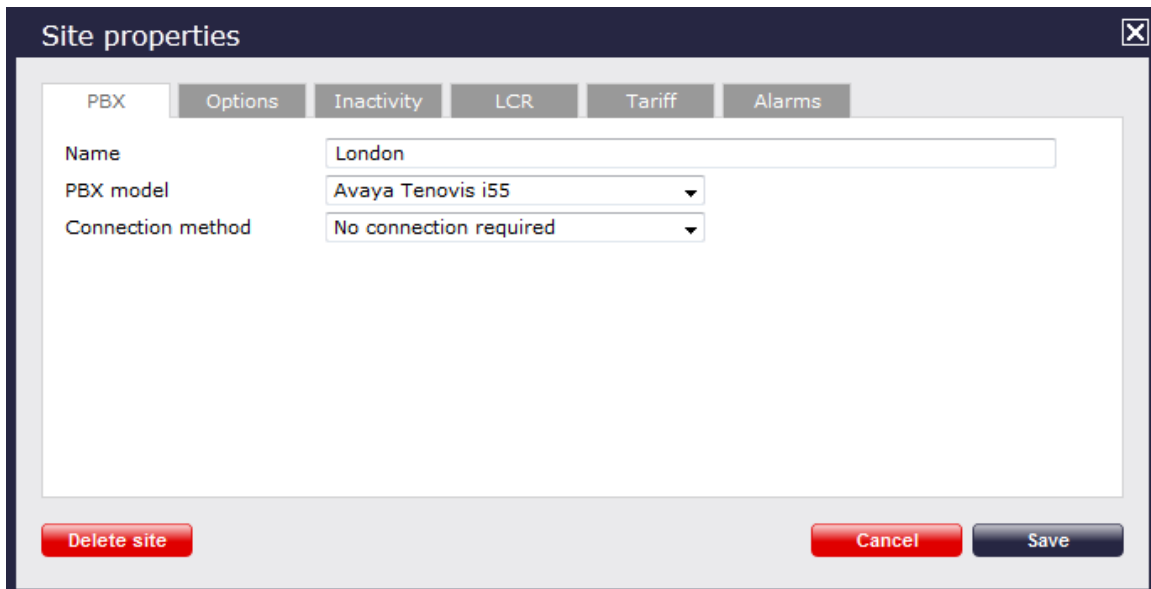
The Avaya Tenovis outputs its SMDR data via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and follow the steps below:

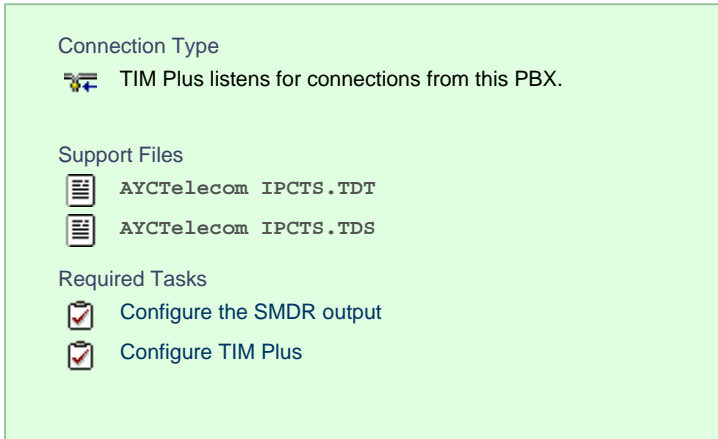
1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



3. In the **Site Properties** window, select **Avaya Tenovis i55** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to save settings.

AYCTelecom IPcts

These instructions help you configure your AYCTelecom IPcts to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

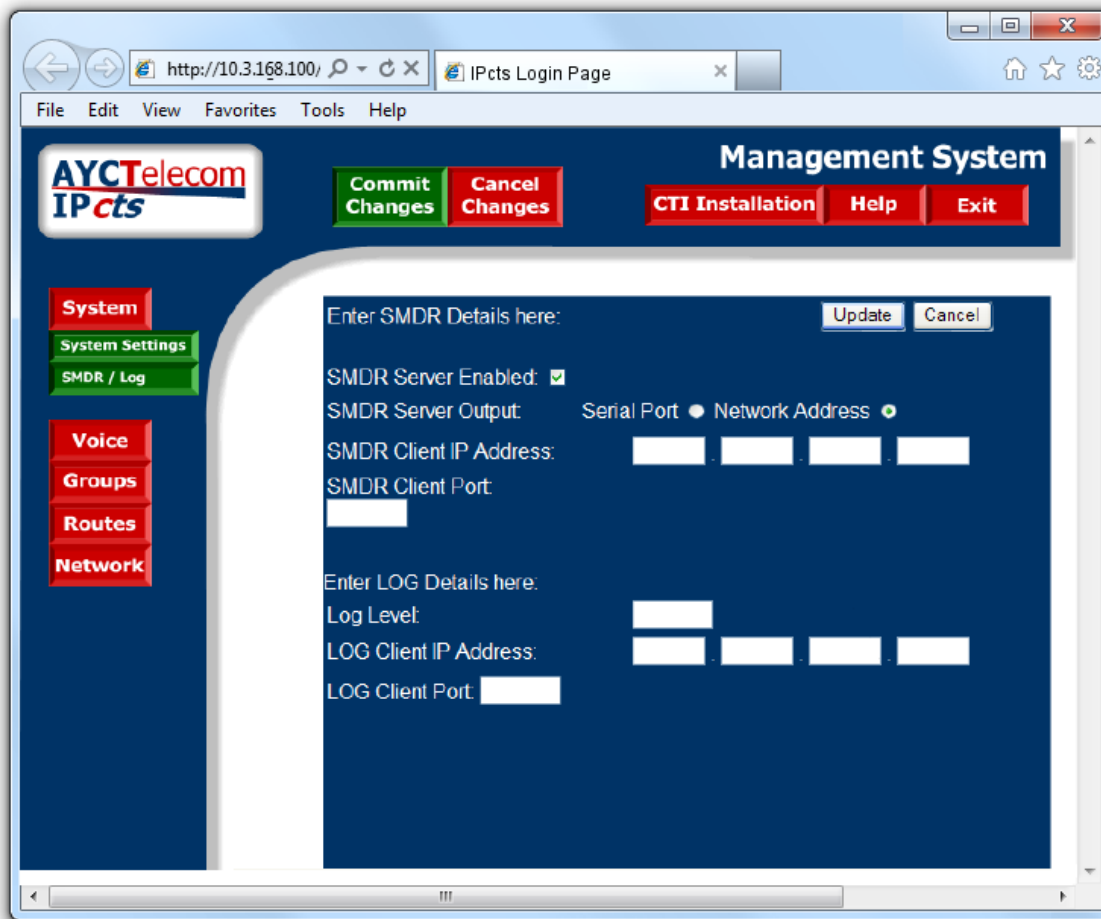


Configuring your SMDR output

Follow the steps below to set up the SMDR output of your IPcts through its management web page:

1. Log in to your AYCTelecom IPcts management web page.
2. Select the **System** tab
3. Select the **SMDR/Log** tab and configure the fields on the page as below:
 - **SMDR Server Enabled:** Enable the check box.
 - **SMDR Server Output:** Choose **Network Address**.
 - **SMDR Client IP Address:** Enter the IP address of the computer running TIM Plus.
 - **SMDR Client Port:** Enter the TCP port number you want to send the SMDR data to. You can use any free TCP port, but we would recommend one in the 9000 range.
4. Click the **Update** button.
5. Click the **Commit Changes** button at the top of the page so save your settings.

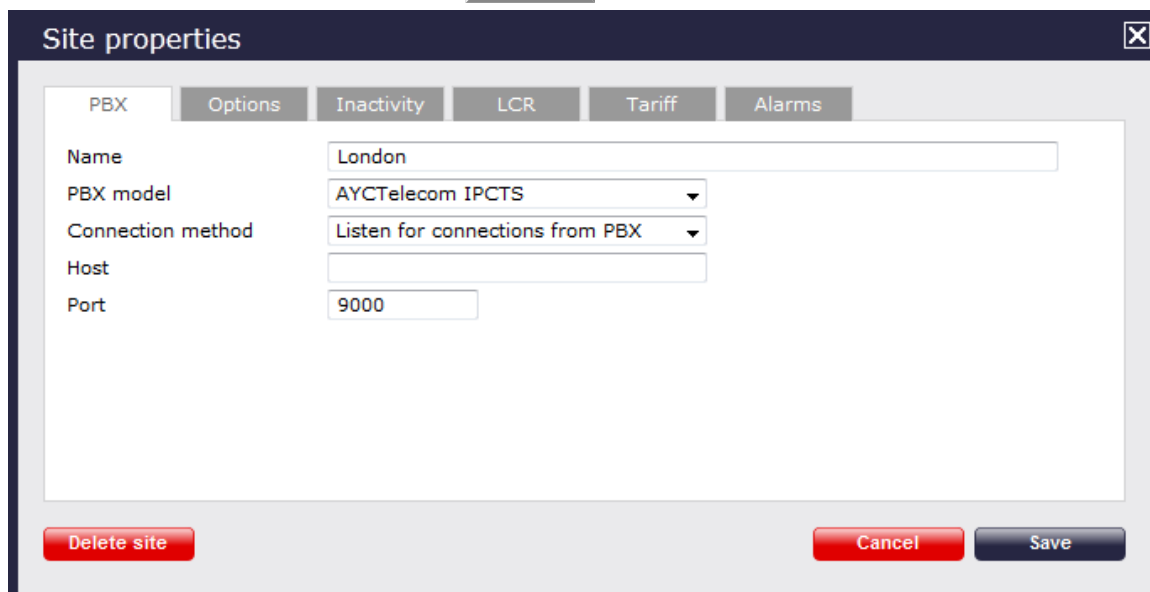
Here is an example screenshot of the SMDR configuration screen from the AYCTelecom IPcts management web page:



Configuring TIM Plus

Follow the steps below to configure TIM Plus to listen for SMDR data from your AYCTelecom IPcts phone system:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the **Site Properties** window, select **AYCTelecom IPCTS** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Listen for connections from PBX** from the drop-down list.


5. Leave the `Host` field blank.
6. In the `Port` field, enter the TCP port that was configured on your AYCTelecom IPcts (e.g. `9000`).
7. Click on the **Save** button to apply the changes.

BT

BT Inspiration

These instructions help you configure your BT Inspiration phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 `BT Inspiration.TDT`

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

To configure SMDR settings on your BT Inspiration you need to have a BT System Phone and be familiar with how to use it for system programming purposes. To enable SMDR output, follow the steps below:

1. From the programming position, press the phone setup key **P** and select **System programming**.
2. Enter the PIN and select **System**.
3. Select **Call logging** and choose **Call logging on**.
4. Press **HANDSFREE/MONITOR** to finish configuring the system.

Installing NetPBX

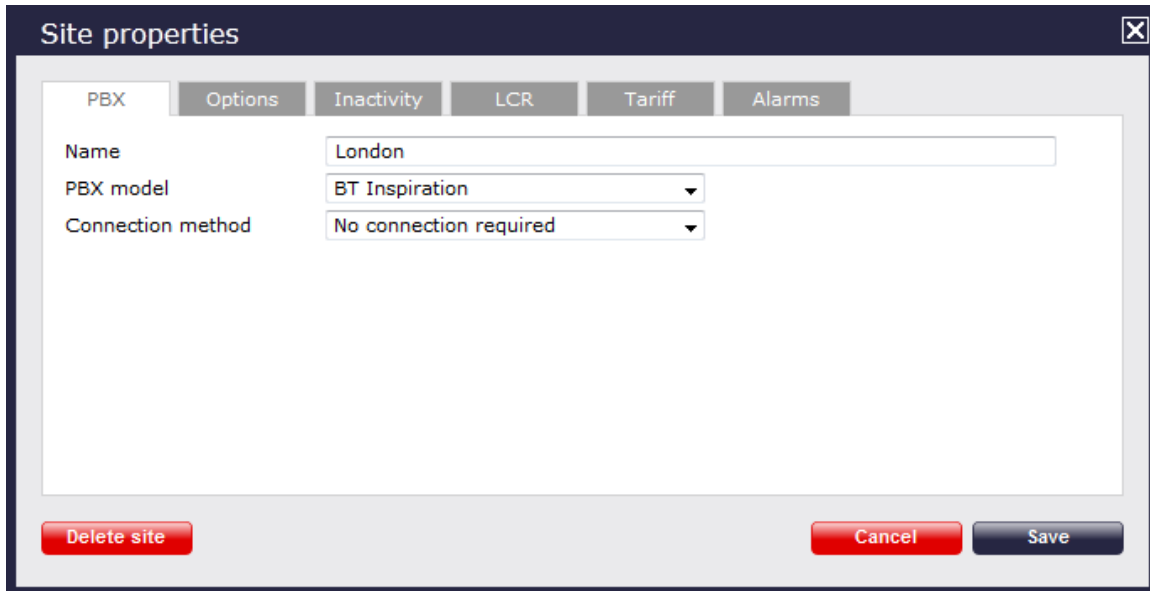
The BT Inspiration phone system sends SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and follow the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: BT Inspiration

Connection method: No connection required


Delete site Cancel Save

3. In the **Site Properties** window, select **BT Inspiration** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


BT Monarch

These instructions help you configure your BT Monarch to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 BT_Monarch.TDT

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

Please contact your system maintainer for information about how to configure the SMDR output of your BT Monarch.

Installing NetPBX

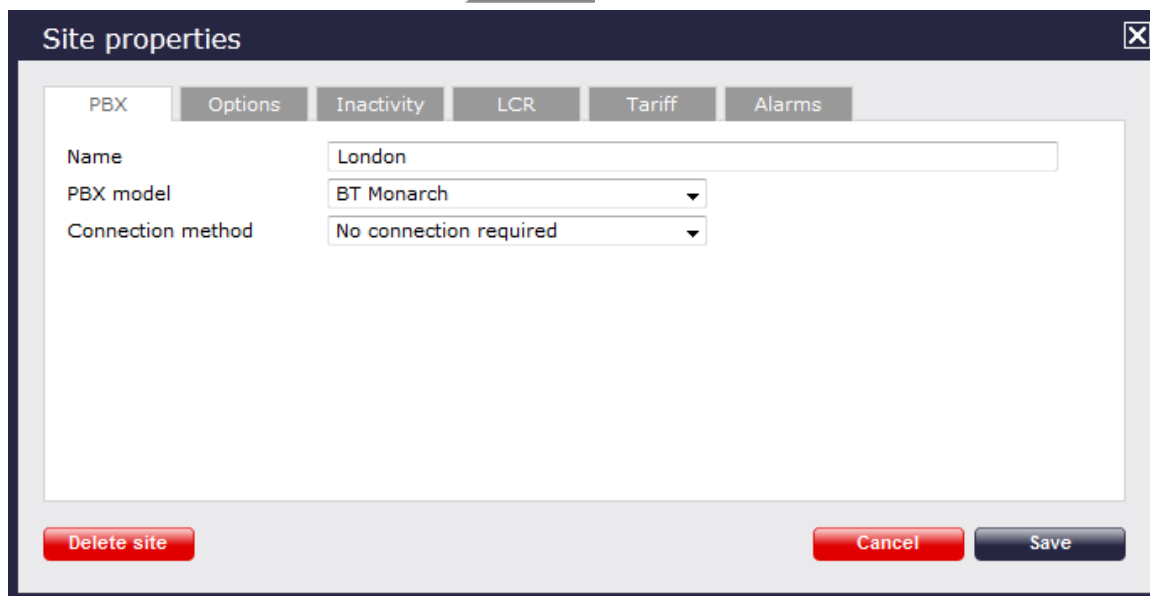
The BT Monarch phone system sends SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and follow the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' window with the following details:


- Tab:** PBX (selected), Options, Inactivity, LCR, Tariff, Alarms
- Name:** London
- PBX model:** BT Monarch
- Connection method:** No connection required
- Buttons:** Delete site, Cancel, Save

3. In the **Site Properties** window, select **BT Monarch** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


BT Pathway

These instructions help you configure your BT Pathway to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type


 TIM Plus establishes a serial connection with this PBX.

Support Files

 BT Pathway.TDT

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

 To obtain the **BT Pathway.TDT** interface file, contact our Technical Support team.

Configuring your SMDR output

To receive SMDR data from your BT Pathway you need to have a BT System Phone and be familiar with how to use it to perform system programming. To enable SMDR output, follow the steps below:

1. From the programming position, press the phone setup key **P** and select **System programming**.
2. Enter the PIN and select **System**.
3. Select **Call logging** and choose **Call logging on**.
4. Press **HANDSFREE/MONITOR** to finish.

Installing NetPBX

The BT Pathway phone system transmits SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus


Once NetPBX is configured and collecting data, log in to TIM Plus and follow the steps below:


1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

3. In the **Site Properties** window, select **BT Pathway** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

BT Versatility

These instructions help you configure your BT Versatility to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 BT Versatility.TDT

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

The BT Versatility outputs its SMDR data via a serial port. The default communication parameters for this serial connection are:

- Speed – 4800, 9600, 19200, 38400 or 115200 bps;
- Data - 8 bits;
- Parity - None.

The phone system has an in-built buffer to store the last 500 call records in case the receiving equipment becomes disconnected. This buffered data can be set to output to the serial port during system programming. An **X-ON/X-OFF** signal can be enabled to allow the Versatility to detect if a compatible device is receiving its SMDR data successfully. The Versatility can also be set to output SMDR data using **restricted call logging**, whereby the last four digits of any dialled number is masked out.

Follow the instructions below to configure your BT Versatility for use with TIM Plus:

Calls are printed out in the following format as they are completed:


1	2	3	4	5	6	7	8	9	10
O/G	1234	10/01/99	12.00:01	00:00:30	L01	S21	S21	:000.00	1234567
O/G		10/02/99	12.00:10	00:01:56	L02	S25	S25	:000.00	567890
I/C	5678	10/13/99	12.01:13	00:06:32	L03	S22	S24	:000.00	

The explanation of the data output is as follows:

Column Number	Data Output Explanation
1	Incoming (I/C) or Outgoing (O/G) call
2	Account Codes
3	Date (day/month/year)
4	Start time
5	Duration of the call
6	Line used
7	Initiating Extension
8	Terminating Extension
9	Cost. (Not Available)
10	Digits entered (outgoing calls only)

To enable/disable Call Logging


Call Logging is disabled by default on power up.

- From the Programming Extension, press the PROGRAMME Key 
- Press the Scroll Down Key (⏴) until 'System programming' is displayed.
- Select 'System programming'.
- Enter the System Programming Password and select 'System'.
- Press the Scroll Down Key (⏴) until 'Call logging' is displayed.
- Select 'Call logging'.
- Select either 'Call logging On', 'Call logging off', 'Restricted call log ON', 'Enable Xon / Xoff' or 'Print Log'

Press the Hands-free Key to finish programming.


To prevent calls from individual Extensions being logged

If Call Logging is enabled, then by default all calls from all extensions will be logged. However individual extensions can be programmed to prevent their calls being logged.

- From the Programming Extension, press the PROGRAMME Key 
- Press the Scroll Down Key (⏴) until 'System programming' is displayed.
- Select 'System programming'.
- Enter the System Programming Password and select 'Extensions'.
- Press the Scroll Down Key (⏴) until 'No call logging' is displayed.
- Select 'No call logging'.
- Select the Extensions whose calls are not to be logged. The selected Extensions will be indicated with a ♦.

Press the Hands-free Key to finish programming.

To set the call logging interface speed for connecting a Printer or PC

- From the Programming Extension, press the PROGRAMME Key 
- Press the Scroll Down Key (⏴) until 'System programming' is displayed.
- Select 'System programming'.
- Enter the System Programming Password and select 'System'.
- Press the Scroll Down Key (⏴) until 'Set v24 baud rate' is displayed.
- Select 'Set v24 baud rate'.
- Select the speed you require – 4800, 9600, 19,200, 38,400 or 115,200 bps.

Press the Hands-free Key to finish programming.

Note: To connect a printer or PC for call logging, use the call logging interface module and cable provided and connect one end to the V24 interface on the CCU and the other end to the serial device e.g. a PC or a printer.

Installing NetPBX

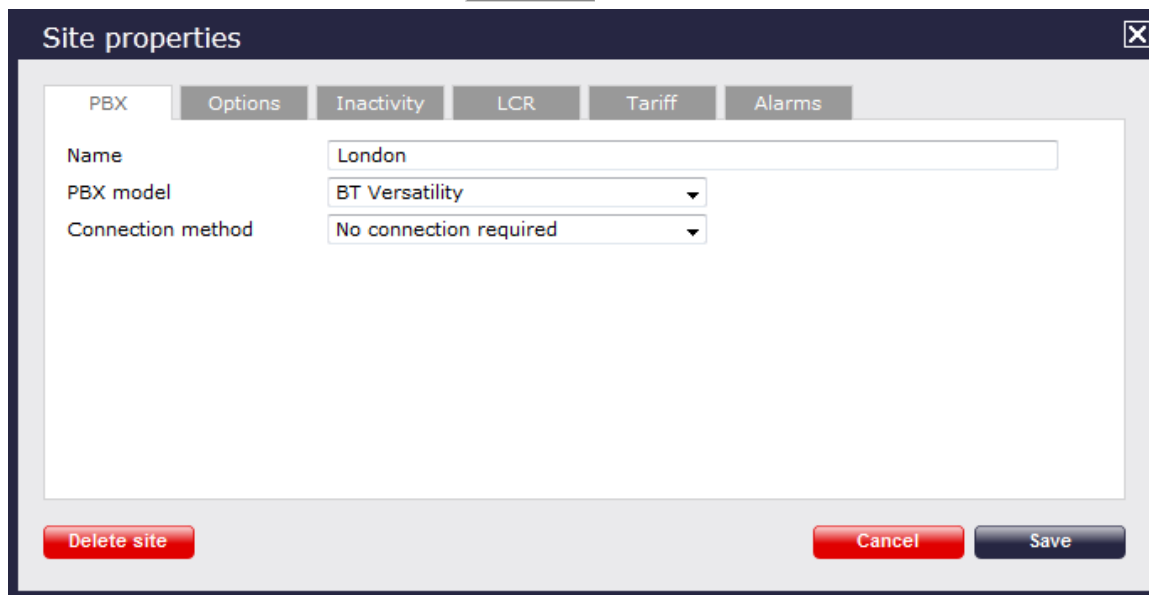
To collect the SMDR data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and follow the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' window with the following configuration:

- Name:** London
- PBX model:** BT Versatility
- Connection method:** No connection required

Buttons at the bottom: Delete site, Cancel, Save.


3. In the **Site Properties** window, select **BT Versatility** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Cisco




Cisco UCM (below v5)

These instructions help you configure your Cisco UCM to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a DSN connection with this PBX.

Support Files

-  Cisco UCM v4 DSN.TDT
-  Cisco UCM v4 DSN.TDS
-  Cisco UCM 4.DBS

Required Tasks

- Configure the SMDR output
- Set up a DSN connection
- Configure TIM Plus

Configuring your SMDR output

This version of the Cisco UCM stores its call records in a Microsoft SQL Server database. However, by default, this functionality is not

enabled. To enable it, the following settings must be configured on the **Publisher** using the **Service Parameters** configuration window:

- CDR Enabled
- CDR Log Calls With Zero Duration Flag
- Call Diagnostics Enabled

This version of the UCM outputs its call records to a table named `CallDetailRecord` in a database entitled `CDR`. Rather than have TIM Plus read and remove CDRs from the live `CallDetailRecord` table, we recommend you replicate this into a second table - leaving the original intact - so that it may be used by other applications that require it. Normally, there already exists a SQL User with the following credentials:

- **Username:** `CiscoCCMCDR`
- **Password:** `dipsy`

To set up replication you may need to speak to your database administrator or your Cisco UCM maintainer. Ensure that the SQL user described above has full access rights to this replicated table.


You need to know the following information in order for TIM Plus to be able to connect to the Cisco UCM CDR database:

- The IP address or hostname of the Microsoft SQL Server database located on the **Publisher** node.
- The username and password to connect to the `CDR` database.

Setting up a DSN connection for TIM Plus

To enable TIM Plus to work with your Cisco UCM, you first need to set up a DSN connection. Follow the steps below to perform this task within Microsoft Windows:

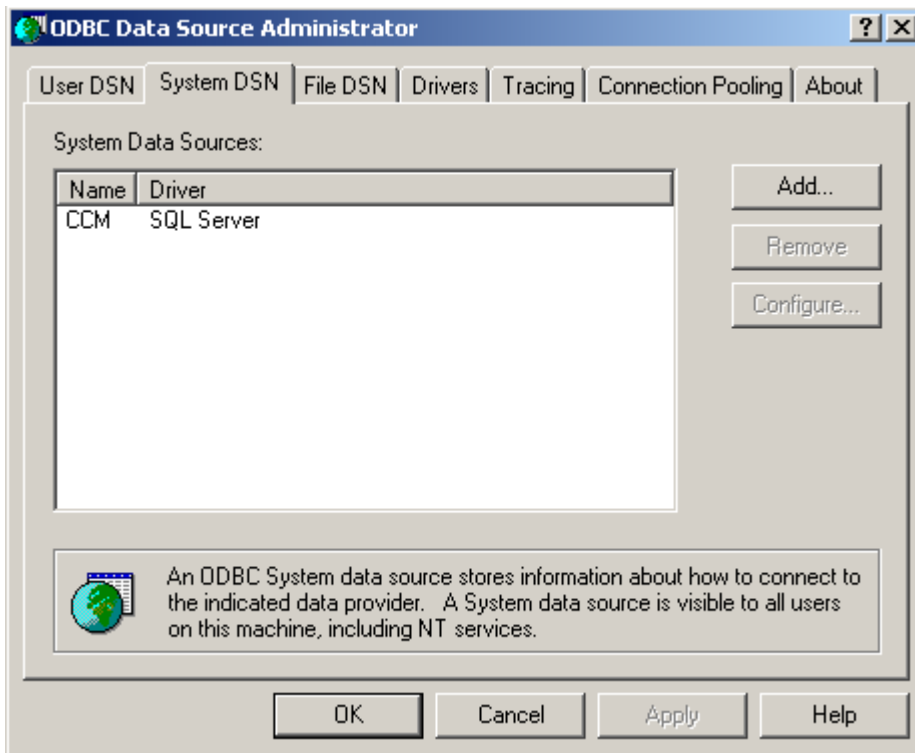
1. Open Windows **Control Panel**
2. Double click on the `Administrative tools` icon
3. Double click on the `Data Sources (ODBC)` icon to open the `ODBC Data Source Administrator` window

 For a 64 bit system, access the `ODBC Data Source Administrator` from the following location `C:\Windows\SystemWOW64\odbcad32.exe`

4. Select the `System DSN` tab and click the `Add` button
5. Select `SQL Server` from the list of available drivers and click `Finish`
6. In the `Name` field, enter `CCM`
7. In the `Description` field enter the following: `TIM Plus link to CCM`
8. In the `Database name` field enter the database type e.g `SQL, MySQL` etc.
9. In the `Server` drop-down list select the Cisco UCM Publisher IP address or machine name
10. Click the `Next` button
11. Select the option `With SQL Server authentication using a login ID and password entered by the user`, then click `Next`
12. Enable the checkbox `Change the default database to:`, select `CDR`, then click the `Next` button

13. Click the **Finish** button
14. Click the **Test Data Source** button to verify your settings and, if the test is successful, click **OK**
15. Click the **OK** button to close the control panel applet

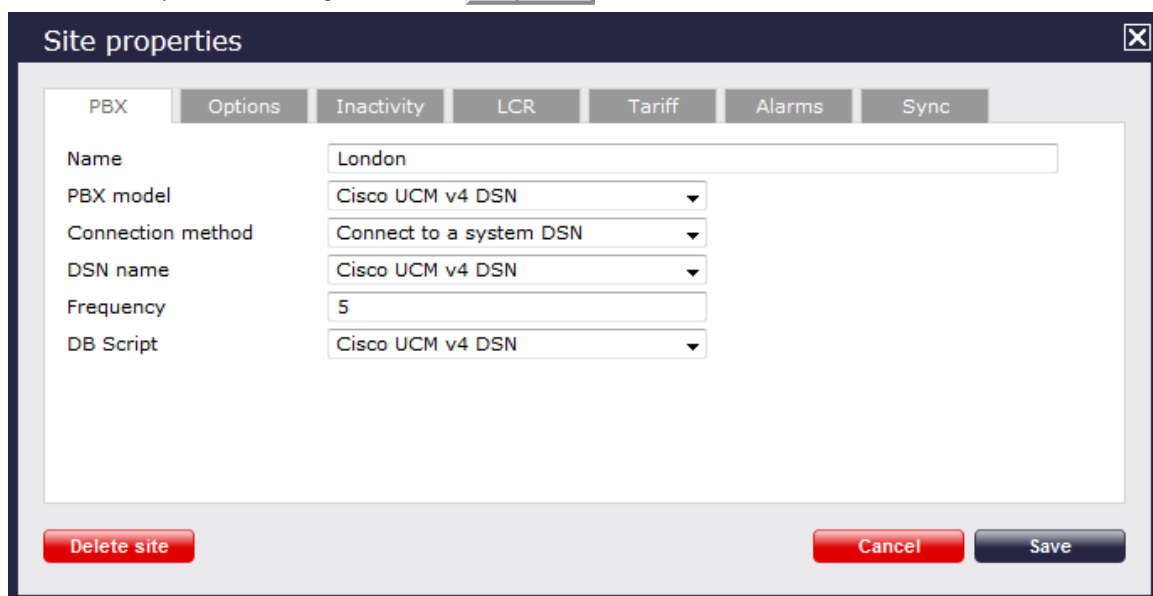
An example of an ODBC setup is shown below:



Configuring TIM Plus

Once the DSN connection has been set up, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the **Site Properties** window, select **Cisco UCM v4 DSN** from the **PBX model** drop-down list.
4. Select **Connect to a system DSN** from the **Connection method** drop-down list.



5. Select **Cisco UCM v4 DSN** from the **DSN name** drop-down list.
6. Enter **5** in the **Frequency** field.
7. Select **Cisco UCM v4 DSN** from the **DB script** drop-down list.
8. Click the **Save** button to apply the settings.

Cisco UCM / Business Edition (Call Manager) version 5+

These instructions help you configure your Cisco UCM version 5.0 - 8.6 to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus receives FTP transfers from this PBX.

Support Files

-  Cisco UCM 5+.TDT
-  Cisco UCM 5+.TDS

Required Tasks

- Create Cisco Application User for AXL sync
- Configure Cisco AXL sync
- Configure TIM Plus to receive data by FTP
- Set up FTP/SFTP in Cisco UCM

Create Cisco Application User for AXL sync

To enable TIM Plus to query the Cisco database, you need to create an **Application User** on your Cisco UCM. Follow the steps below to complete this task:

1. Connect to the web management interface of your UCM node and select **Cisco Unified CM Administration** from the **Navigation** drop-down list.
2. Log in to the system and click **User Management** from the main menu. Select **Application User** from the drop-down list.
3. Click **Add New** to create a new user:

User ID: **TIM_AXL**

Password: **Clsc0**

Confirm Password: **Clsc0**

Application User Information

User ID*

Password

Confirm Password

Digest Credentials

Confirm Digest Credentials


Presence Group*

Accept Presence Subscription

Accept Out-of-dialog REFER



Accept Unsolicited Notification

Accept Replaces Header

 The credentials above are shown as an example. In the interests of security, you should choose your own values.

4. Scroll down to the **Permissions Information** section and click **Add to User Group**.
5. In the new window, enter **Standard Tab** and then click **Find**. Tick the **Standard TabSync User** box, and then click on the **Add Selected** tab.

User Group (1 - 1 of 1)

Find User Group where Name begins with **Find** **Clear Filter**  

<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Standard TabSync User

Select All **Clear All** **Add Selected** **Close**

6. Click **Save** to apply the settings.

Configuring Cisco AXL sync

Follow the steps below to configure TIM Plus to synchronise with the directory of your Cisco UCM:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.
3. In the **Site Properties** window, select the **Sync** tab.
4. Tick the **Synchronise with the following device** box, and enter your UCM details, as shown below:

5. In the `Host` field, enter the IP address of the UCM Publisher node.
6. In the `Username` field, enter the username of the Cisco Application User you configured in the previous section, e.g. `TIM_AXL`.
7. Click on the `Set` button and enter the password of the Cisco Application User you configured in the previous section, e.g. `Cisco`, then click `OK`.
8. Click on the `Save` button to apply the settings.

TIM Plus will now connect to your Cisco UCM and synchronise with its directory.

Configuring TIM Plus to receive data by FTP

Follow the steps below to configure TIM Plus to receive data from your Cisco UCM:

1. Click on the `Directory` tab.
2. Choose the site you want to configure and click `Properties`.

3. In the `Site Properties` window, select `Cisco UCM 5+` from the `PBX model` drop-down list.
4. In the `Connection method` field, select `Receive FTP transfers from PBX` from the drop-down list.
5. In the `Username` field, enter the username you created when setting up your Cisco UCM for FTP/SFTP transfers, e.g. `TIM`.
6. In the `Password` field, enter the password you chose when setting up your Cisco UCM for FTP/SFTP transfers, e.g. `Ciscoftp`.

- Click on the **Save** button to apply the changes.

Set up FTP/SFTP in Cisco UCM

You will need to configure your Cisco UCM to send the CDR data to TIM Plus. Note that the UCM can be configured with cluster wide or server specific settings, depending on how the system maintainer has installed it. Please note that, by default, CDR records are turned off.

- Log in to **Cisco UCM Administration** and from the left-hand menu click on the **System** tab and select **Service Parameters**.
- Choose your UCM node from the **Server** drop-down list.
- Select **Cisco Call Manager** from the **Service** drop-down list.
- In the **System** section, change the **CDR Enabled Flag** to **True**. Enable this parameter on all servers within the cluster you want to log calls for.



- Change the **CDR Log Calls with Zero Duration Flag** to **True**. This parameter enables or disables the logging of CDRs for calls which did not connect.
- Click on the **Save** button.
- Click on the **Navigation** drop-down list from the top right-hand corner, and select **Cisco Unified Serviceability**. You may need to log in with a user account that has administrative permissions.
- Select **Tools**, then click on the **CDR Management** tab.
- Click the **Add New** button. You will now see the **Billing Application Server Parameters** window. Enter the following parameters:

Host Name / IP Address: The IP address or hostname of the machine running TIM Plus.

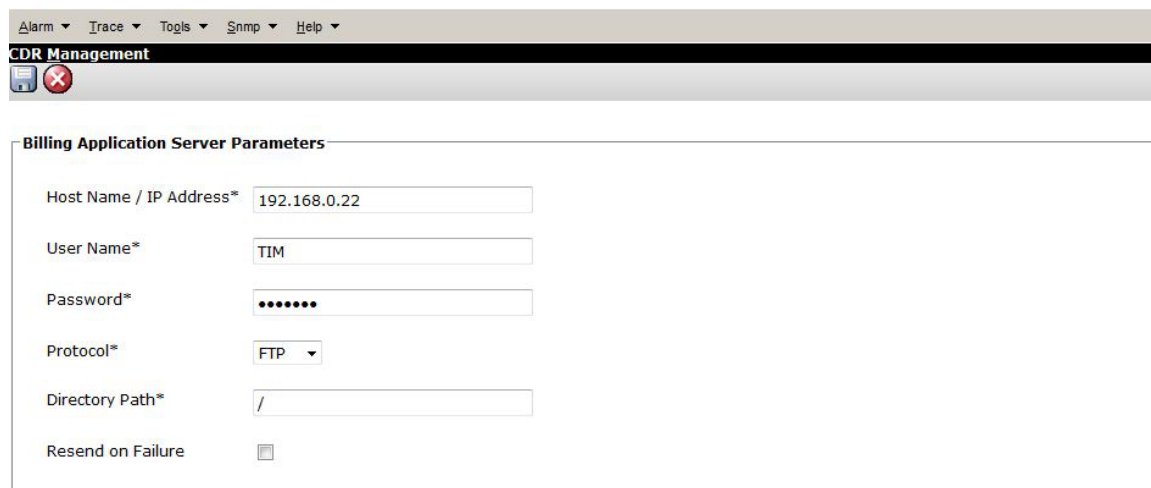
User Name: Enter a user name for FTP/SFTP transfers (e.g. **TIM**)

Password: Enter a password for the FTP account (e.g. **Ciscoftp**)

Protocol: Select FTP or SFTP as desired.

Directory Path: Enter a forward-slash character to indicate root (/).

Remove the tick from **Resend on Failure**.



- Next, click on the **Add** button to complete the billing server configuration. The UCM node will check that the FTP/SFTP details are valid and will write a test file to the FTP/SFTP directory. If this fails, you should double-check the details you entered.

Cisco UCME / UC500 (Call Manager Express)


The Cisco UCME / UC500 can be configured to send RADIUS or SysLog events. Click on one of the links below for your preferred connection method.

- Cisco recommends that you use RADIUS events because they provide more detailed call logging information.



Cisco UCME / UC500 - RADIUS

These instructions help you configure your Cisco UCME / UC500 to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus captures RADIUS packets from this PBX.

Support Files

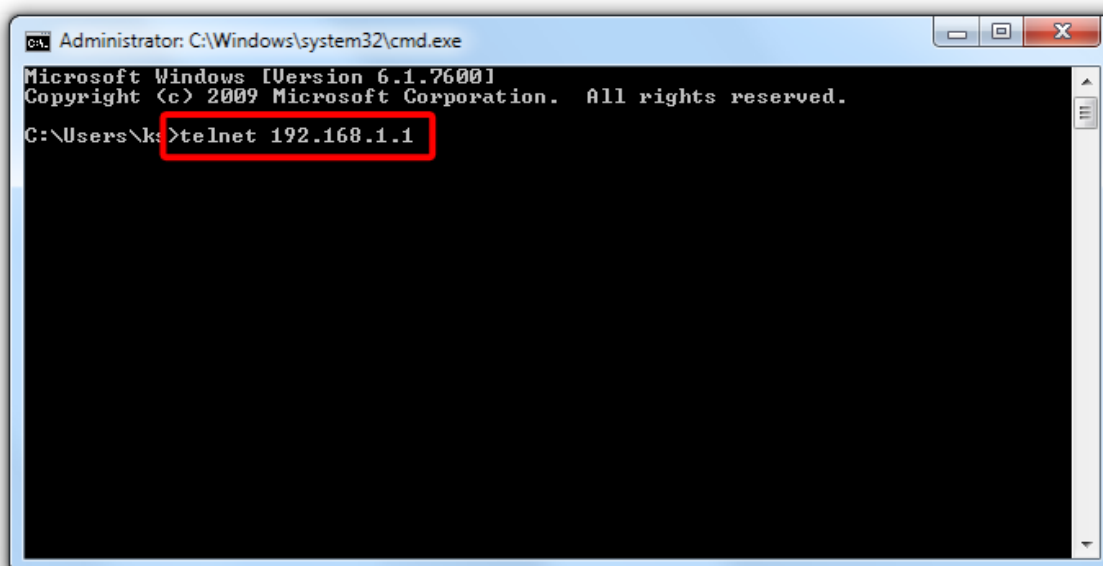
-  Cisco UCME - RADIUS.TDT
-  Cisco UCME - RADIUS.TDS

Required Tasks

- Configure UCME to send RADIUS events
- Configure Cisco AXL sync
- Configure TIM Plus to capture RADIUS packets

Configuring UCME to send RADIUS events

Use Telnet to connect to the IP address of your UCME as shown below:



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\k>telnet 192.168.1.1
```

Once connected, enter the following commands to enable the UCME to send RADIUS events to TIM Plus:

Step	IOS commands	Description
1	<code>enable</code>	Causes the UCME to enter EXEC mode. Type your EXEC password if requested
2	<code>conf t</code>	Enters the global configuration mode
3	<pre>aaa new-model aaa accounting connection h323 start-stop group RADIUS gw-accounting aaa acct-template callhistory-detail</pre>	Enables aaa accounting mode
4	<pre>RADIUS-server host 192.168.0.1 auth-port 0 acct-port 1612</pre>	Specifies the IP address and port of TIM Plus's RADIUS, to which CDR data will be sent, e.g. <code>192.168.0.1:1612</code>
5	<code>RADIUS-server key Cisco</code>	Specifies a RADIUS authentication secret that will be used by TIM Plus (configured in the next section), e.g. <code>Cisco</code>
6	<code>RADIUS-server vsa send accounting</code>	Enables VSA events
7	<code>end</code>	Exits configuration mode
8	<code>wr</code>	Saves the changes

Configuring Cisco AXL sync

Follow the steps below to configure TIM Plus to perform directory synchronisation with your Cisco UCME:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.
3. In the `Site Properties` window, select the **Sync** tab.
4. Tick the option entitled `Synchronise with the following device`.

Site properties

PBX Options Inactivity LCR Tariff Alarms Sync

Synchronise with the following device every

Host

Optionally, enter a username and password to access IOS

Username

Password

5. In the `Host` field, enter the IP address of your UCME.
6. In the `Port` field, enter the port number of the IOS service, e.g. `23`.
7. In the `Username` field, enter the username of the IOS login that can perform synchronisation.
8. Click on the `Set` button and enter the password of the IOS login that can perform synchronisation.
9. Click on the `Save` button to apply the changes.

Configuring TIM Plus to capture RADIUS packets

Follow the steps below to configure TIM Plus to receive RADIUS data from your UCME:

1. Click on the `Directory` tab.
2. Choose the site you want to configure and click `Properties`.

Site properties

PBX Options Inactivity LCR Tariff Alarms Sync

Name

PBX model

Connection method

Client IP

Secret

3. In the `Site Properties` window, select `Cisco UCME - RADIUS` from the `PBX model` drop-down list.
4. In the `Connection method` field, select `RADIUS connection` from the drop-down list.
5. In the `Client IP` field, enter the IP address of your UCME.
6. In the `secret` field, enter the RADIUS-server key you configured on your UCME in the section above, e.g. `Cisco`.

- Click on the **Save** button to apply the settings.

Cisco UCME / UC500 - SysLog

These instructions help you configure your Cisco UCME / UC500 to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

- TIM Plus captures SysLog packets from this PBX.

Support Files

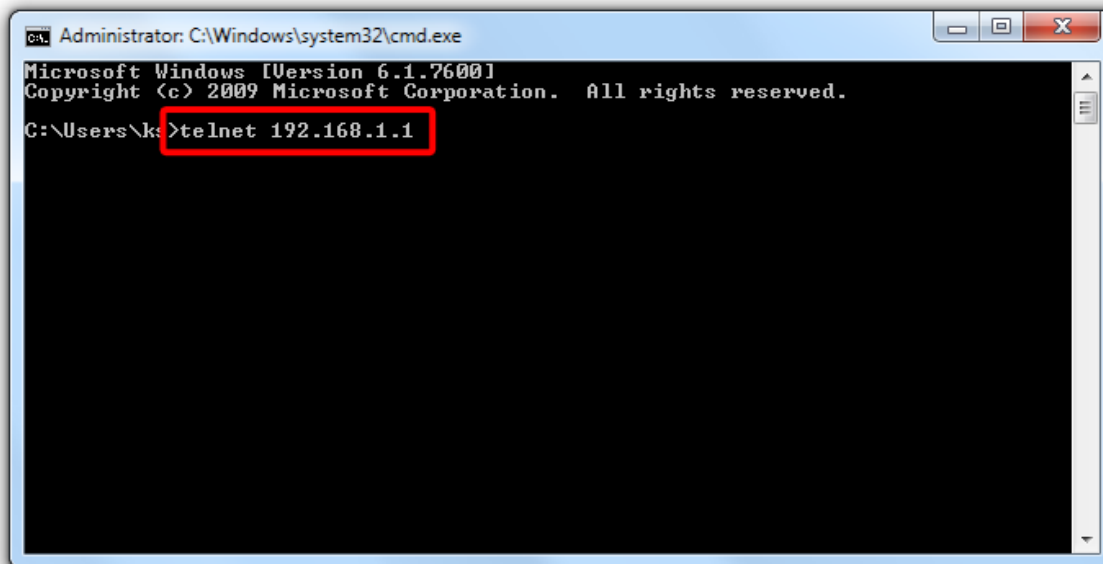
- Cisco UCME - SysLog.TDT
- Cisco UCME - SysLog.TDS

Required Tasks

- Configure UCME to send SysLog events
- Configure Cisco AXL sync
- Configure TIM Plus to capture SysLog packets

Configuring UCME to send SysLog events

Use Telnet to connect to the IP address of your UCME as shown below:



Once connected, enter the following commands to enable the UCME to send SysLog events to TIM Plus:

Step	IOS commands	Description
1	<code>enable</code>	Causes the UCME to enter EXEC mode. Type your EXEC password if requested
2	<code>conf t</code>	Enters the global configuration mode

3	<code>aaa new-model</code>	Enables aaa accounting mode
	<code>aaa accounting connection h323 start-stop group SysLog</code>	
	<code>gw-accounting syslog</code>	
	<code>acct-template callhistory-detail</code>	
4	<code>logging 192.168.0.1</code>	Specifies the IP address of TIM Plus's SysLog server, to which CDR data will be sent, e.g. 192.168.0.1
5	<code>end</code>	Exits configuration mode
6	<code>wr</code>	Saves changes

Configuring Cisco AXL sync

Follow the steps below to configure TIM Plus to perform directory synchronisation with your Cisco UCME:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.
3. In the **Site Properties** window, select the **Sync** tab.
4. Tick the option entitled **Synchronise with the following device**.

The screenshot shows the 'Site properties' dialog box with the 'Sync' tab selected. The 'Synchronise with the following device every 1 hours' checkbox is checked. The 'Host' field contains '192.168.1.1' and the 'Port' field contains '23'. Below these fields, there is a note: 'Optionally, enter a username and password to access IOS'. The 'Username' field contains 'IOS Login'. There is a 'Set' button next to the 'Password' field. At the bottom of the dialog, there are three buttons: 'Sync now', 'Cancel', and 'Save'.

5. In the **Host** field, enter the IP address of your UCME.
6. In the **Port** field, enter the port number of the IOS service, e.g. 23.
7. In the **Username** field, enter the username of the IOS login that can perform synchronisation.
8. Click on the **Set** button and enter the password of the IOS login that can perform synchronisation.
9. Click on the **Save** button to apply the changes.

Configuring TIM Plus to capture SysLog packets

Follow the steps below to configure TIM Plus to receive SysLog data from your Cisco UCME:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

The screenshot shows a 'Site properties' window with the following configuration:

- Name:** London
- PBX model:** Cisco UCME - SysLog
- Connection method:** SysLog connection
- Client IP:** 192.168.1.1

Buttons at the bottom: Delete site, Cancel, Save.


3. In the **Site Properties** window, select **Cisco UCME - SysLog** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **SysLog connection** from the drop-down list.
5. In the **Client IP** field, enter the IP address of the UCME.
6. Click on the **Save** button to apply the settings.

DrayTek


DrayTek UG-Vigour


These instructions help you configure your Draytek phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus captures SysLog packets from this PBX.

Support Files

 Draytek.TDT

 Draytek.TDS

Required Tasks

Configure your router

Configure TIM Plus

Configuring your router

Follow the steps below to enable SysLog events on your DrayTek phone system:

1. Access the web interface of your DrayTek router and navigate to **System Maintenance >> SysLog/Mail Alert Setup**, as shown below:

System Maintenance >> SysLog / Mail Alert Setup

SysLog / Mail Alert Setup

<p>SysLog Access Setup</p> <p><input checked="" type="checkbox"/> Enable</p> <p>Syslog Save to:</p> <p><input checked="" type="checkbox"/> Syslog Server</p> <p><input type="checkbox"/> USB Disk</p> <p>Router Name <input type="text"/></p> <p>Server IP Address <input type="text" value="192.168.1.10"/></p> <p>Destination Port <input type="text" value="514"/></p> <p>Enable syslog message:</p> <p><input type="checkbox"/> Firewall Log</p> <p><input type="checkbox"/> VPN Log</p> <p><input type="checkbox"/> User Access Log</p> <p><input checked="" type="checkbox"/> Call Log</p> <p><input type="checkbox"/> WAN Log</p> <p><input type="checkbox"/> Router/DSL information</p>	<p>Mail Alert Setup</p> <p><input type="checkbox"/> Enable <input type="button" value="Send a test e-mail"/></p> <p>SMTP Server <input type="text"/></p> <p>Mail To <input type="text"/></p> <p>Return-Path <input type="text"/></p> <p><input type="checkbox"/> Authentication</p> <p>User Name <input type="text"/></p> <p>Password <input type="text"/></p> <p>Enable E-Mail Alert:</p> <p><input checked="" type="checkbox"/> DoS Attack</p> <p><input checked="" type="checkbox"/> IM-P2P</p>
---	--

2. Check the **Enable** box to activate the SysLog function.
3. Check the **Syslog Server** box to save the logs directly to the server.
4. Enter the IP address of TIM Plus's SysLog server, to which CDR data will be sent.
5. Check the **Call Log** box to enable the output of call logging data.
6. Click on the **OK** button to save the settings.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to receive SysLog data from your DrayTek phone system:

1. Log in to TIM Plus and click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

Site properties ✕

PBX Options Inactivity LCR Tariff Alarms

Name

PBX model

Connection method

Client IP

3. In the `Site Properties` window, select `Draytek` from the `PBX model` drop-down list.
4. In the `Connection method` field, select `SysLog connection` from the drop-down list.
5. In the `Client IP` field, enter the IP address of your DrayTek router.
6. Click on the `Save` button to apply the settings.

Ericsson


Ericsson BP


Please refer to Aastra BP.

Fujitsu

Fujitsu Rhapsody Rio

These instructions help you configure your Fujitsu Rhapsody Rio phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 `Fujitsu Rhapsody Rio.TDT`

Required Tasks

- `Configure the SMDR output`
- `Install NetPBX`
- `Configure TIM Plus`

Configuring your SMDR output

The Fujitsu Rhapsody Rio phone system sends SMDR information via a serial connection. You need to directly connect a serial cable from the Fujitsu Rhapsody Rio phone system to the PC that `NetPBX` is installed and running on. For more information about the output and configuration of your SMDR data, please contact your system maintainer.

Installing NetPBX

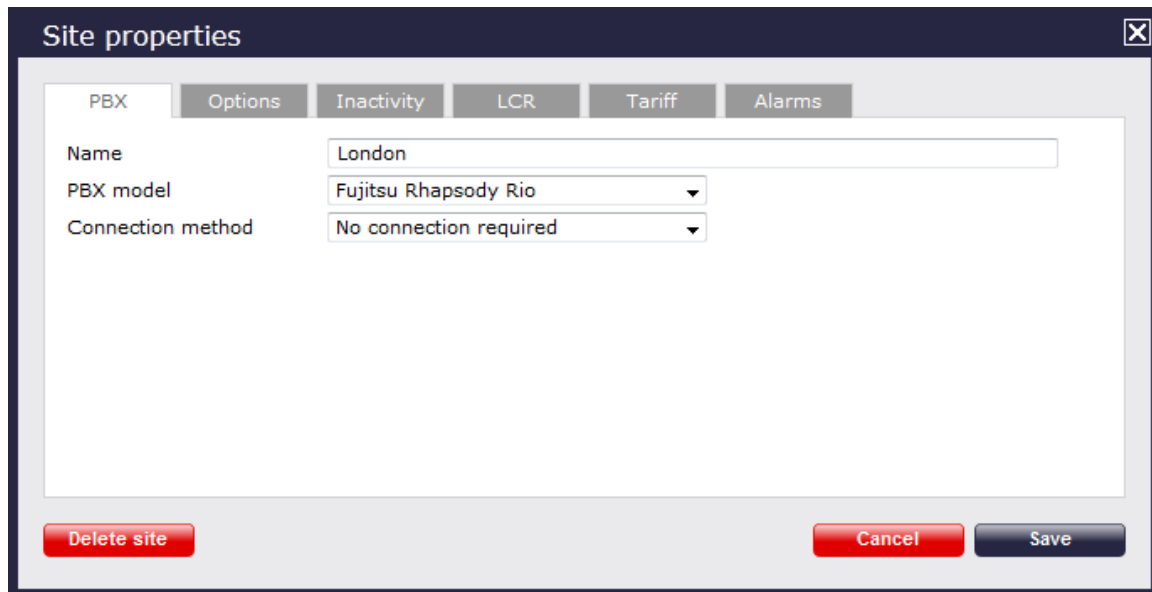
To collect call logging data from the serial port and send it to TIM Plus, you first need to install the `NetPBX` software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once `NetPBX` is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties

PBX model: **Fujitsu Rhapsody Rio**

Connection method: **No connection required**


3. In the **Site Properties** window, select **Fujitsu Rhapsody Rio** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

GEC


GEC BTEX

These instructions help you configure your GEC BTEX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 GEC BTEX 600S.TDT

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

i Note that the GEC BTEX can output SMDR information in multiple formats. You should select the **600s** format for use with TIM Plus.

The GEC BTEX phone system sends SMDR information via a serial connection. You need to directly connect a serial cable from the GEC BTEX phone system to the PC that **NetPBX** is installed and running on.

For more information about the output and configuration of your SMDR data, please contact your system maintainer.

Installing NetPBX

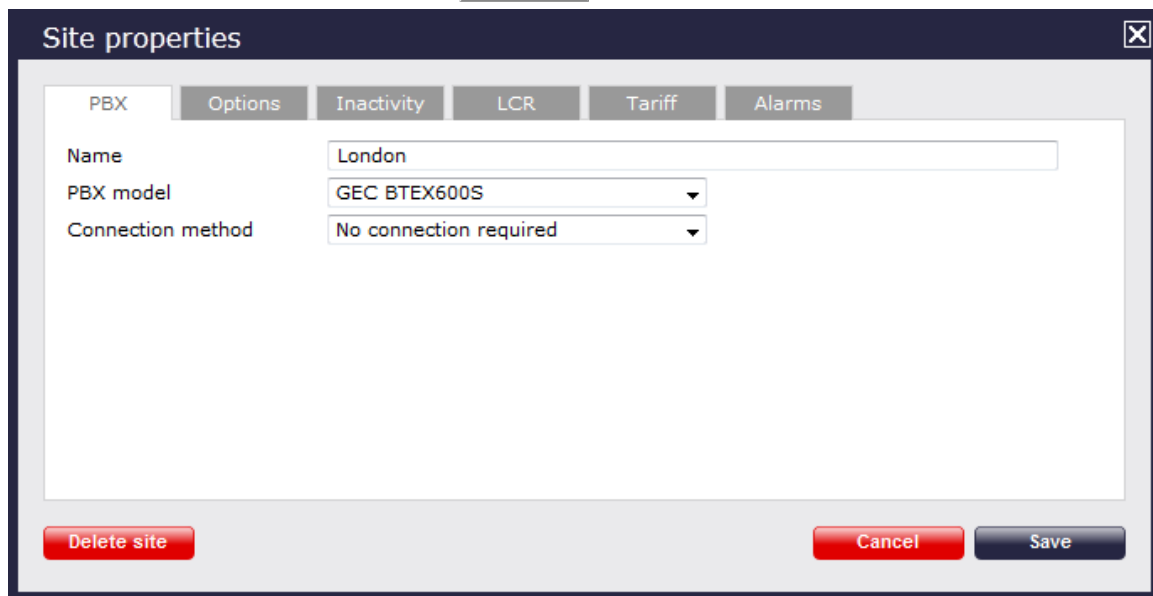
To collect the call logging data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



3. In the **Site Properties** window, select **GEC BTEX 600S** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Inter-Tel

Inter-Tel Axxess up to V7.x

Please refer to [Mitel 5000-7000](#).


Inter-Tel Axxess V8 plus


Please refer to [Mitel 5000-7000](#).

Iridiacom

Iridiacom Telrad

These instructions help you configure your Iridiacom Telrad phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 Iridiacom Telrad IS.TDT

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

The Iridiacom Telrad phone system sends SMDR information via a serial connection. You need to directly connect a serial cable from the Iridiacom Telrad phone system to the PC that NetPBX is installed and running on.

For more information about the output and configuration of your SMDR data, please contact your system maintainer.

Installing NetPBX

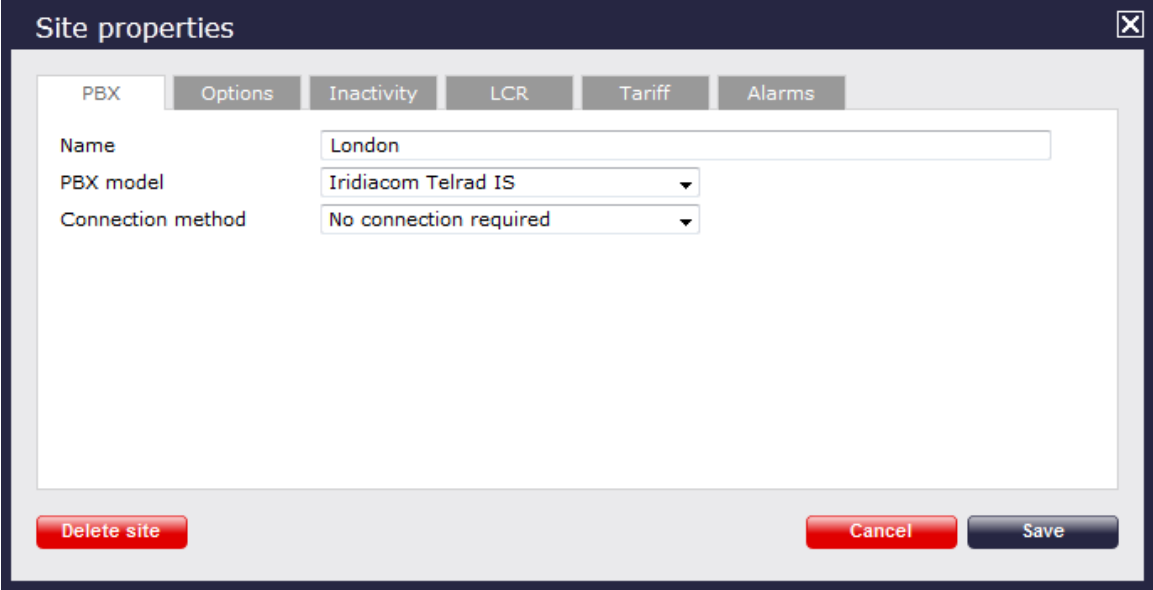
To collect call logging data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the **Site Properties** window, select **Iridiacom Telrad IS** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings

IPCortex


VoIPCortex


These instructions help you configure your VoIPCortex phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

 VoIPCortex.TDT

 VoIPCortex.TDS

Required Tasks

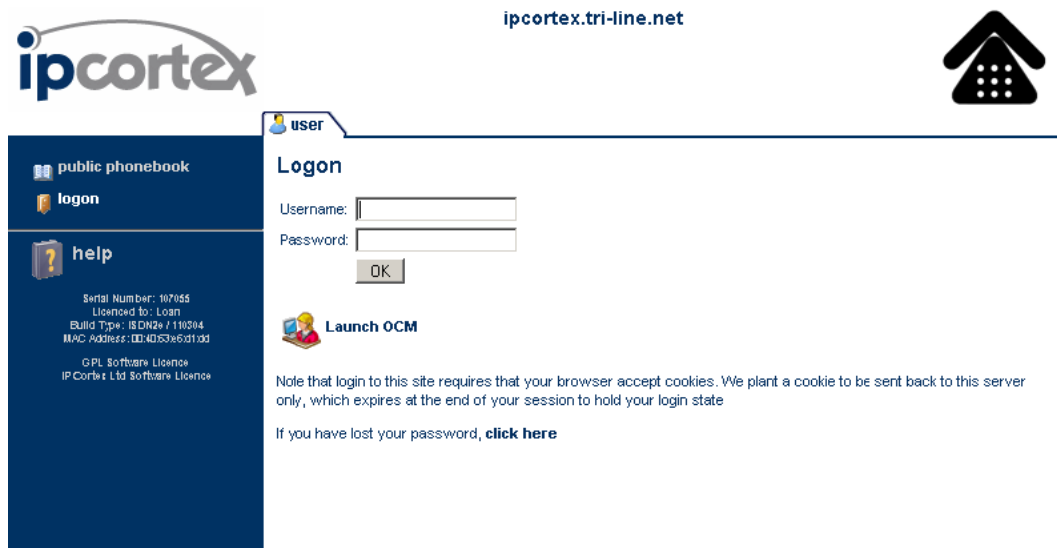
Configure the SMDR output

Configure TIM Plus

Configuring your SMDR output

Follow the steps below to enable the SMDR output on your VoIPCortex phone system:

1. Log in to the VoIPCortex phone system using your admin username and password.



2. Click on the **System** tab and from the left-hand side menu expand the **Global** tree node.
3. In the **Passwords** section, create a password to allow event to be retrieved by TIM Plus, as shown below:



- user
- system
- pabx
- routing
- record
- call-log
- monitor

- phone hardware
- remote phonebooks
- system backup
- shutdown / reboot
- global
- network
- telephony
- email
- passwords
- general
- dhcp server
- handsets
- advanced
- advanced/network
- advanced/groups
- high availability
- remote support
- upgrades

- logout
- help

Serial Number: 107056
 Licensed to: Loan
 Build Type: ISDN2e / 110304
 MAC Address: 00:40:53:e6:01:0d
 GPL Software Licence
 IPCortex Ltd Software Licence

Manage Global Settings

NOTE: It is possible that the system will need to be rebooted (powered off and on) if settings marked * are altered. Settings marked ** require a further activation step before being used.

Update

Default passwords

Description of Setting	Current	Change to
Admin PIN for phones	0000	<input type="text" value="0000"/>
Admin PIN for phone provisioning		<input type="text"/>
Default voicemail PIN	000	<input type="text" value="000"/>
Nightmode PIN	0000	<input type="text" value="0000"/>
IVR recording PIN	0000	<input type="text" value="0000"/>
User PIN overrides call barring	false / off	<input type="checkbox"/>
User PIN overrides phone rights	false / off	<input type="checkbox"/>
Password for Sugar CRM / Voice RD		<input type="text"/>
Password for xtelsio	trinet1	<input type="text" value="trinet1"/>
Password for Call Data Collection	trinet	<input type="text"/>

Update

4. Once you have completed the configuration, restart the phone system for the changes to take affect.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect SMDR data from your VoIPCortex phone system:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

Site properties

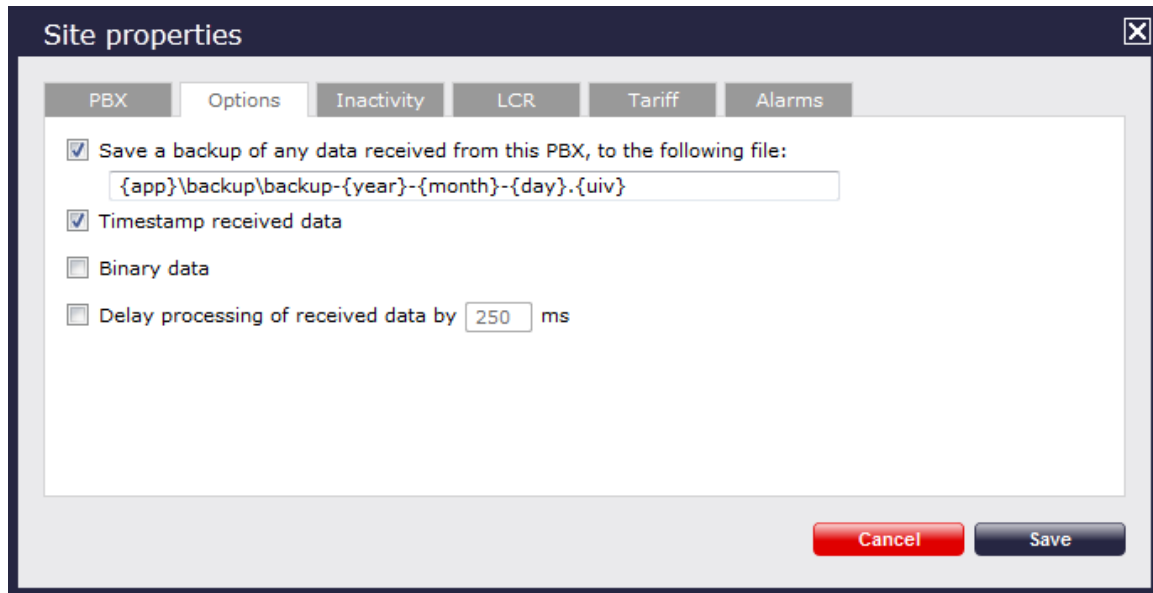
PBX
Options
Inactivity
LCR
Tariff
Alarms

Name	<input type="text" value="London"/>
PBX model	<input type="text" value="VoIPCortex"/>
Connection method	<input type="text" value="Actively connect to PBX"/>
Host	<input type="text" value="192.168.1.1"/>
Port	<input type="text" value="5038"/>
Username	<input type="text" value="xtelsio"/>
Password	<input type="password" value="••••••"/>
Connection script	<input type="text" value="VoIPCortex"/>

Delete site
Cancel
Save

3. In the site Properties window, select **VoIPCortex** from the PBX model drop-down list.

4. In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
5. In the **Host** field, enter the IP address of your VoIPCortex.
6. In the **Port** field, enter **5038**.
7. Leave the **Username** field, enter **xtelsio**.
8. In the **Password** field, enter the password you configured in the phone system.
9. In the **Connection script** field, select **VoIPCortex** from the drop-down list.
10. Click on the **Options** tab and tick the box **Timestamp received data**.




11. Click on the **Save** button to apply the settings.

LG



LG GDK

These instructions help you configure your LG GDK phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

-  LG GDK.TDT
-  LG.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

The LG GDK phone system sends SMDR information via a serial connection. You need to directly connect a serial cable from the LG GDK phone system to the PC that NetPBX is installed and running on.

Since the LG GDK doesn't have the SMDR output enabled by default, you need to ask your system maintainer to enable SMDR logging for outgoing, incoming and abandoned calls.

Installing NetPBX

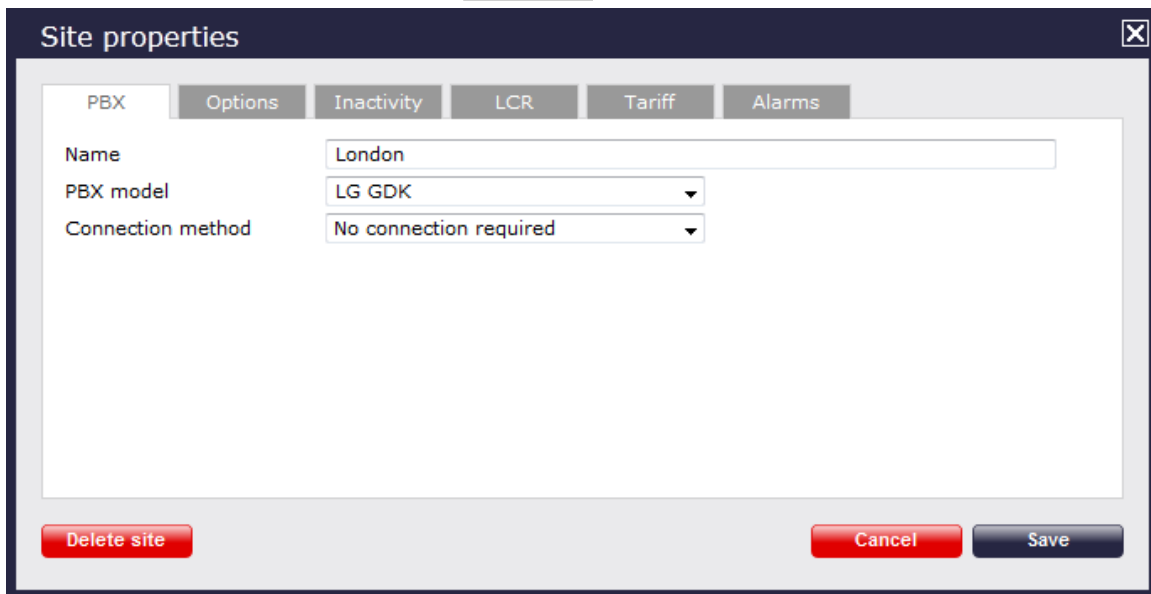
To collect call logging data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the **Site Properties** window, select **LG GDK** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.



LG iPECS

The LG iPECS can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.

LG iPECS - Serial connection

These instructions help you configure your LG iPECS phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 LG iPECS.TDT
 LG.TDS

Required Tasks
 Configure the SMDR output
 Install NetPBX
 Configure TIM Plus

Configure the SMDR output

The SMDR output in LG iPECS is disabled by default. To enable the output, you need to amend the following settings in the programming sections below:

SMDR Attributes (PGM 177)

Field	Description
Save Enable	Leave this as the default which is unticked
Print Enable	This needs to be enabled by clicking on the check box
SMDR Record Call Type	This needs to be set to 'All Calls', you will need to select this from the drop-down list
Records In Detail	This needs to be enabled by clicking on the check box
Print Incoming Call	This needs to be enabled by clicking on the check box
Print Lost Call	This needs to be enabled by clicking on the check box
SMDR Dial Digit Hidden	Leave this as the default which is '0'
SMDR Currency Unit	Leave this as the default which is blank
SMDR Cost Per Metering Pulse	Leave this as the default which is blank
SMDR Fraction	Leave this as the default which is '0'
SMDR Start Time	Leave this as the default which is '0'
SMDR Hidden Digit	Leave this as the default which is 'Right'
Long Distance Call Digit Counter	Leave this as the default which is '0'
Long Distance Code (Max 2 Digits)	Leave this as the default
MSN Print on SMDR	Leave this is the default which is unticked
Print Caller Number	This needs to be enabled by clicking on the check box

Here is an example of a populated *SMDR Attributes* screen:

Administration | SAW Upgrade | System Management

[SMDR Attributes] Save

Attribute	Value	Range
Save Enable	OFF	
Print Enable	ON	
Record Type	All Call	
Long Distance Call Digit Counter	7	07-15
Print Incoming Call	ON	
Print Lost Call	ON	
Records In Detail	ON	
Hidden Dialed Digit	0	0-9
Dialed Digit Hide Option	Right	
SMDR Currency Unit		Max 3 characters
SMDR Cost Per Metering Pulse	000000	Must be 6 digits
SMDR Decimal Location	0	0-5
Start Timer	0 (*1sec)	000-250
SMTTP Mail Server IP Address	0.0.0.0	
SMDR User Mail Address		MAX 40 characters
SMDR System Domain Name		MAX 18 characters
SMDR Mail Send Weekly Set	N/A	
SMDR Mail Send Daily Set	00	00-23
SMDR Mail Auto Send Set	OFF	
SMDR Mail Auto Delete Set	OFF	
Long Distance Code	1 0	Max 2 digits
	2	Max 2 digits
	3	Max 2 digits
	4	Max 2 digits
	5	Max 2 digits
SMDR Ring/CLI/CPN Service-I	Ring	
SMDR Ring/CLI/CPN Service-II	CPN	
Print MSN	OFF	
Print Serial No	ON	
SMDR Interface Service	OFF	
SMDR ICM Save	OFF	
SMDR ICM Print	ON	
SMDR Disconnect Cause	OFF	
Long Time Call	0 (*10min)	000-144

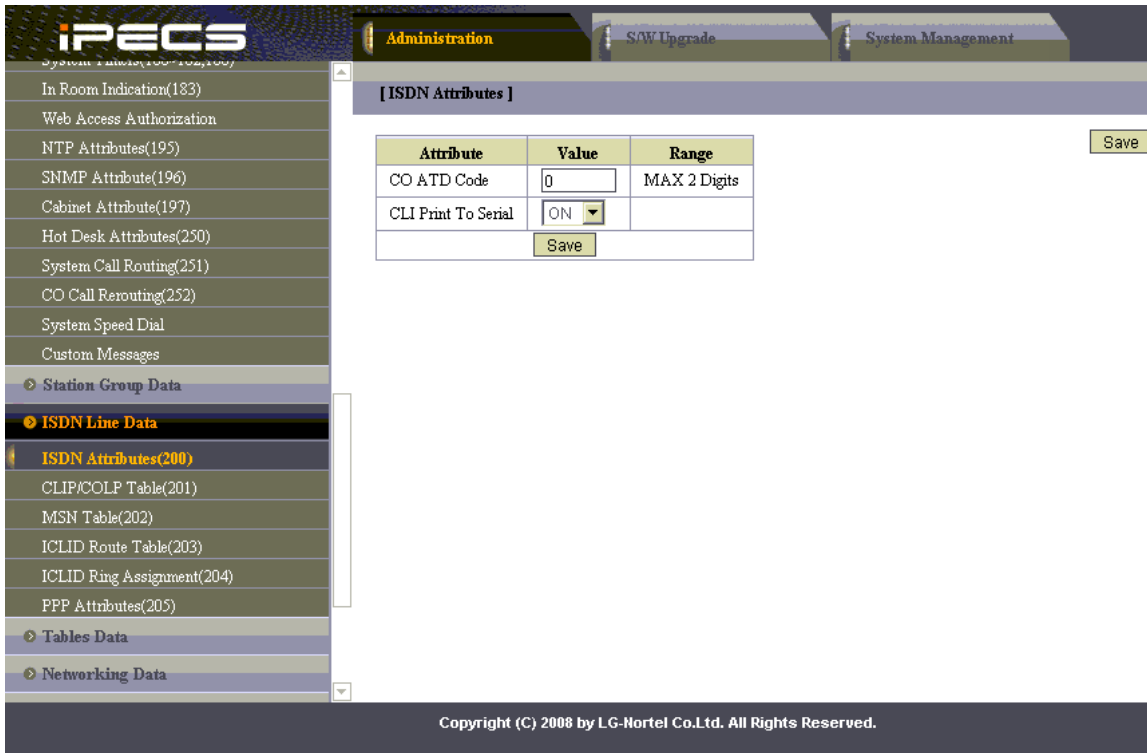
Copyright (C) 2008 by LG-Nortel Co.Ltd. All Rights Reserved.

Printer Port Selection (PGM 175)

In the Printer Port Selection (PGM 175) window, set Info/On-line SMDR to COM1/COM2 to send call logging data by serial port.

ISDN Attributes (PGM 200)

To enable CLI information in the call records produced by your LG iPECS, you need to set the CLI Print To Serial to ON, as shown below:



Installing NetPBX

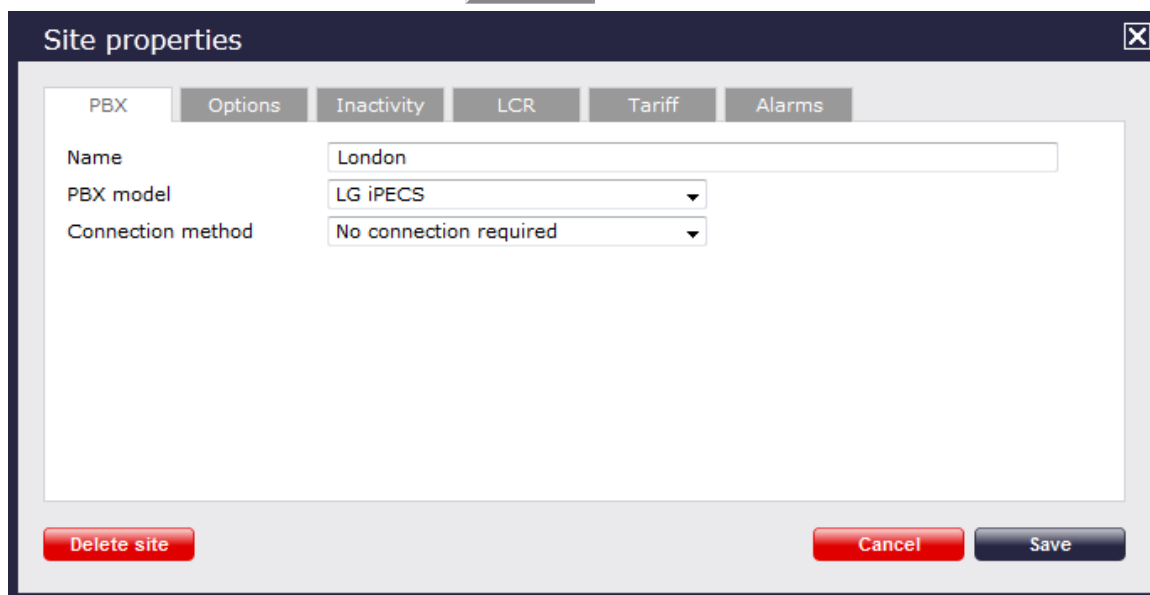
If your LG iPECS has been configured to send SMDR data via a serial connection, you first need to install the NetPBX software to collect data from the serial port and send it to TIM Plus. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.






3. In the Site Properties window, select **LG iPECS** from the PBX model drop-down list.
4. In the Connection method field, select **No connection required** from the drop-down list.



5. Click on the **Save** button to apply the settings.

LG iPECS - IP connection

These instructions help you configure your LG iPECS phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a TCP connection to this PBX.

Support Files
 LG iPECS.TDT
 LG.TDS

Required Tasks
 Configure the SMDR output
 Configure TIM Plus

Configuring the SMDR output

The SMDR output in LG iPECS is disabled by default. To enable the output, you need to amend the following settings in the programming sections below:

SMDR Attributes (PGM 177)

Field	Description
Save Enable	Leave this as the default, which is unticked
Print Enable	This needs to be enabled by clicking on the check box
SMDR Record Call Type	This needs to be set to 'All Calls', you will need to select this from the drop-down list
Records In Detail	This needs to be enabled by clicking on the check box
Print Incoming Call	This needs to be enabled by clicking on the check box
Print Lost Call	This needs to be enabled by clicking on the check box
SMDR Dial Digit Hidden	Leave this as the default which is '0'
SMDR Currency Unit	Leave this as the default which is blank
SMDR Cost Per Metering Pulse	Leave this as the default which is blank
SMDR Fraction	Leave this as the default which is '0'
SMDR Start Time	Leave this as the default which is '0'
SMDR Hidden Digit	Leave this as the default which is 'Right'
Long Distance Call Digit Counter	Leave this as the default which is '0'
Long Distance Code (Max 2 Digits)	Leave this as the default

MSN Print on SMDR	Leave this is the default which is unticked
Print Caller Number	This needs to be enabled by clicking on the check box

Here is an example of a populated SMDR Attributes screen:

[SMDR Attributes] Save

Attribute	Value	Range
Save Enable	OFF	
Print Enable	ON	
Record Type	All Call	
Long Distance Call Digit Counter	7	07-15
Print Incoming Call	ON	
Print Lost Call	ON	
Records In Detail	ON	
Hidden Dialed Digit	0	0-9
Dialed Digit Hide Option	Right	
SMDR Currency Unit		Max 3 characters
SMDR Cost Per Metering Pulse	000000	Must be 6 digits
SMDR Decimal Location	0	0-5
Start Timer	0 (*1sec)	000-250
SMTP Mail Server IP Address	0.0.0.0	
SMDR User Mail Address		MAX 40 characters
SMDR System Domain Name		MAX 18 characters
SMDR Mail Send Weekly Set	N/A	
SMDR Mail Send Daily Set	00	00-23
SMDR Mail Auto Send Set	OFF	
SMDR Mail Auto Delete Set	OFF	
Long Distance Code	1 0	Max 2 digits
	2	Max 2 digits
	3	Max 2 digits
	4	Max 2 digits
	5	Max 2 digits
SMDR Ring/CLI/CPN Service-I	Ring	
SMDR Ring/CLI/CPN Service-II	CPN	
Print MSN	OFF	
Print Serial No	ON	
SMDR Interface Service	OFF	
SMDR ICM Save	OFF	
SMDR ICM Print	ON	
SMDR Disconnect Cause	OFF	
Long Time Call	0 (*10min)	000-144

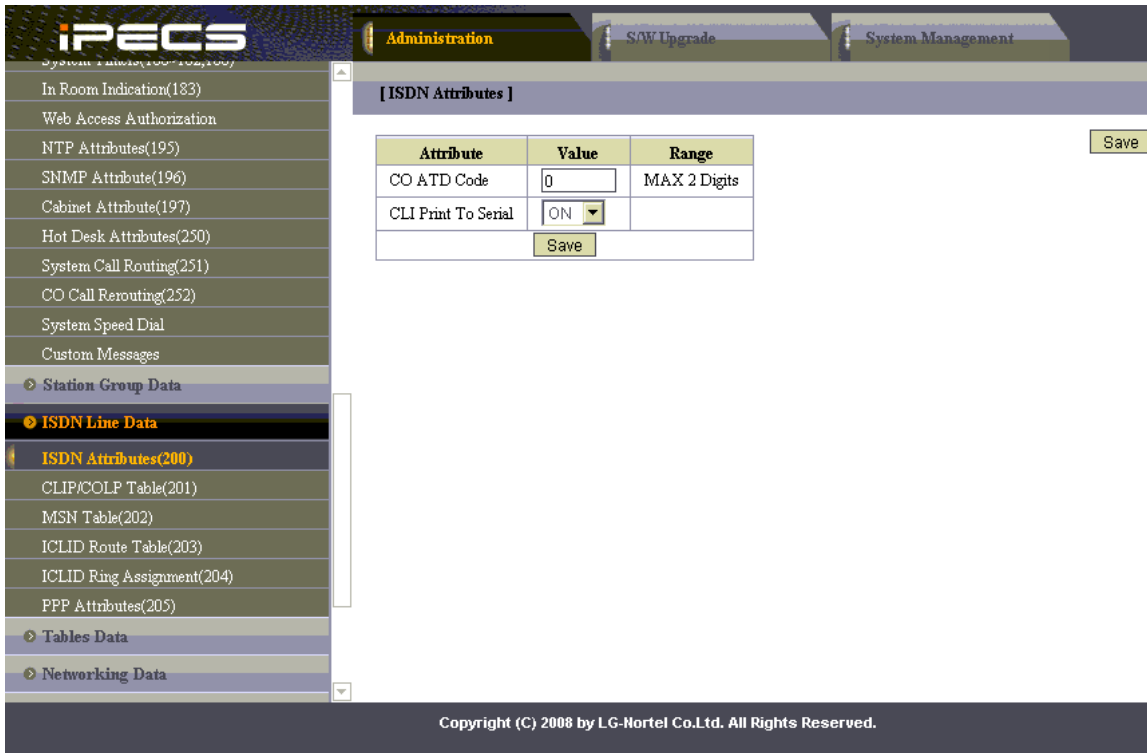
Copyright (C) 2008 by LG-Nortel Co.Ltd. All Rights Reserved.

Printer Port Selection (PGM 175)

In the Printer Port Selection (PGM 175) window, set Info/On-line SMDR to **Telnet 1** to send call logging data to TIM Plus over TCP to port 23.

ISDN Attributes (PGM 200)

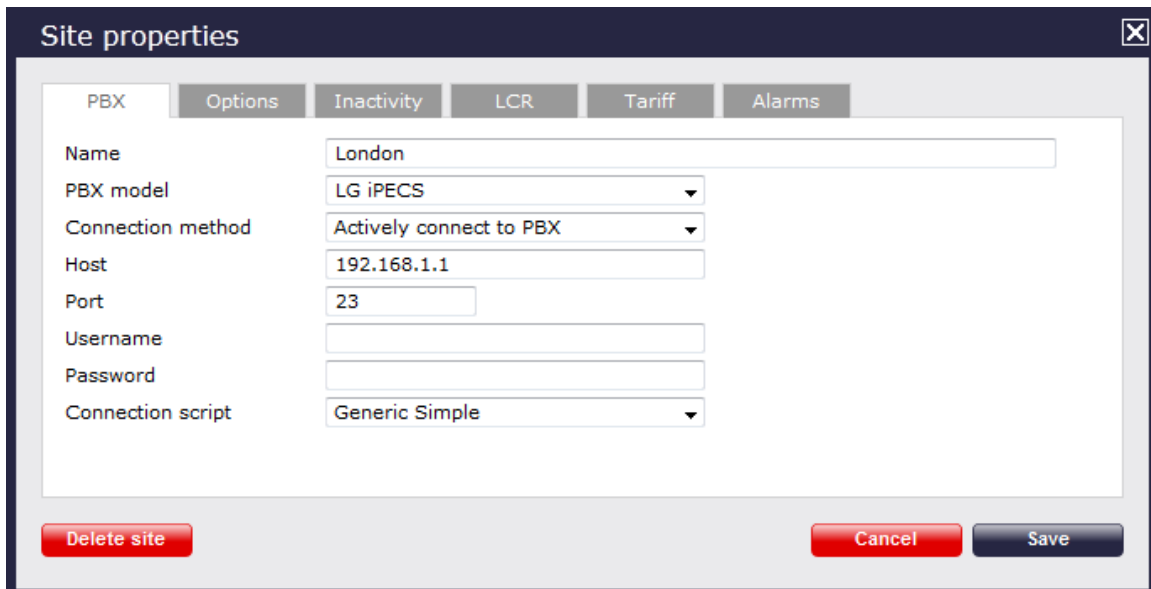
To enable CLI information in the call records produced by your LG iPECS, you need to set the CLI Print To Serial to **ON**, as shown below:



Configuring TIM Plus

If your LG iPECS has been configured to send its call logging data via TCP/IP, follow the steps below to configure TIM Plus:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the **Site Properties** window, select **LG iPECS** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
5. In the **Host** field, enter the IP address of your LG iPECS.
6. In the **Port** field, enter **23**.
7. Leave the **Username** and **Password** fields blank.
8. In the **Connection script** field, select **Generic Simple** from the drop-down list.
9. Click on the **Save** button to apply the settings.

LG IPLDK



The LG IPLDK can be configured to send its SMDR data via a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.

LG IPLDK - Serial connection

These instructions help you configure your LG IPLDK phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files

-  LG IPLDK.TDT
-  LG.TDS

Required Tasks

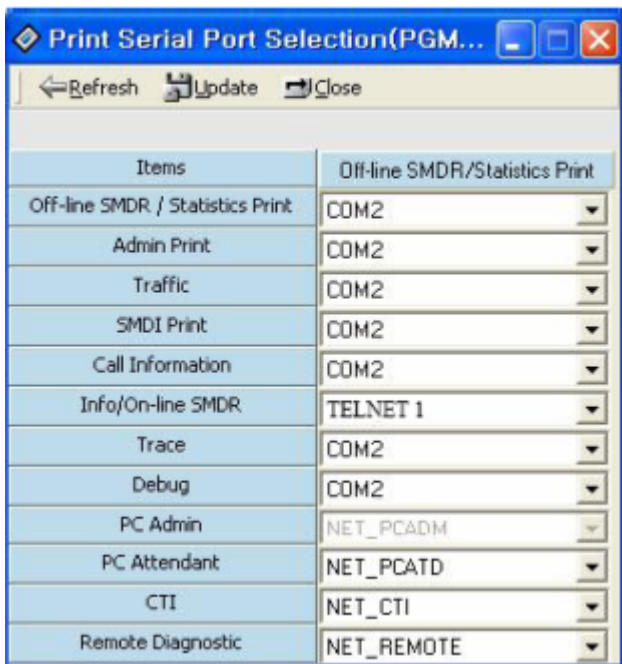
- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

The SMDR output on the LG IPLDK is disabled by default. To enable the output, you need to amend the following settings in the programming sections below:

Print Serial Port Selection (PGM 175)

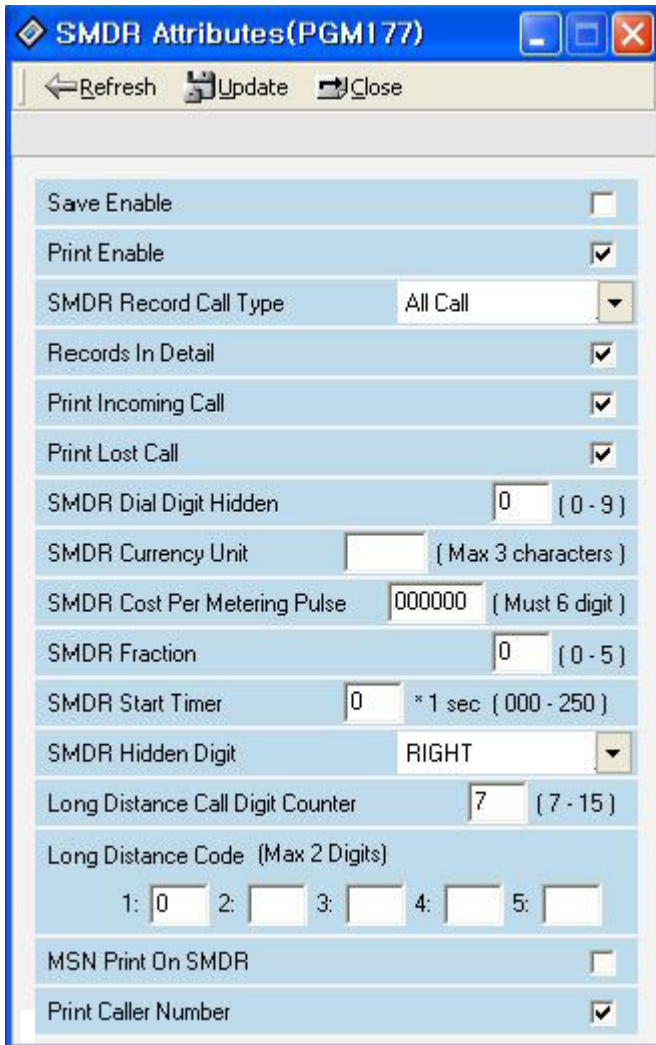
In the *Print Serial Port Selection (PGM 175)* window, set *Info/On-line SMDR* to *COM1/COM2* to send call logging data to the serial port.



SMDR Attributes (PGM 177)

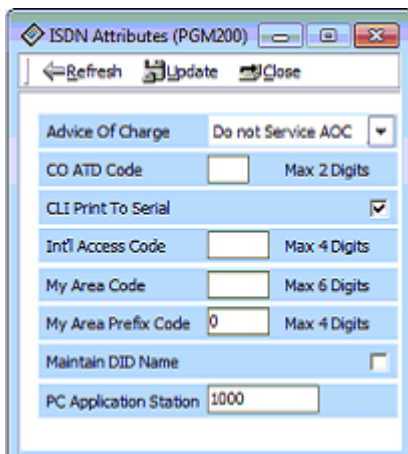
Field	Description
-------	-------------

Save Enable	Leave this as the default, which is unticked
Print Enable	This needs to be enabled by clicking on the check box
SMDR Record Call Type	This needs to be set to 'All Calls', you will need to select this from the drop-down list
Records In Detail	This needs to be enabled by clicking on the check box
Print Incoming Call	This needs to be enabled
Print Lost Call	This needs to be enabled
SMDR Dial Digit Hidden	Leave this as the default which is '0'
SMDR Currency Unit	Leave this as the default which is blank
SMDR Cost Per Metering Pulse	Leave this as the default which is blank
SMDR Fraction	Leave this as the default which is '0'
SMDR Start Time	Leave this as the default which is '0'
SMDR Hidden Digit	Leave this as the default which is 'Right'
Long Distance Call Digit Counter	Leave this as the default which is '0'
Long Distance Code (Max 2 Digits)	Leave this as the default
MSN Print on SMDR	This needs to be disabled
Print Caller Number	This needs to be disabled



ISDN Attributes (PGM 200)

Enable the CLI Print to serial field, as shown the ISDN Attributes window below:



Installing NetPBX

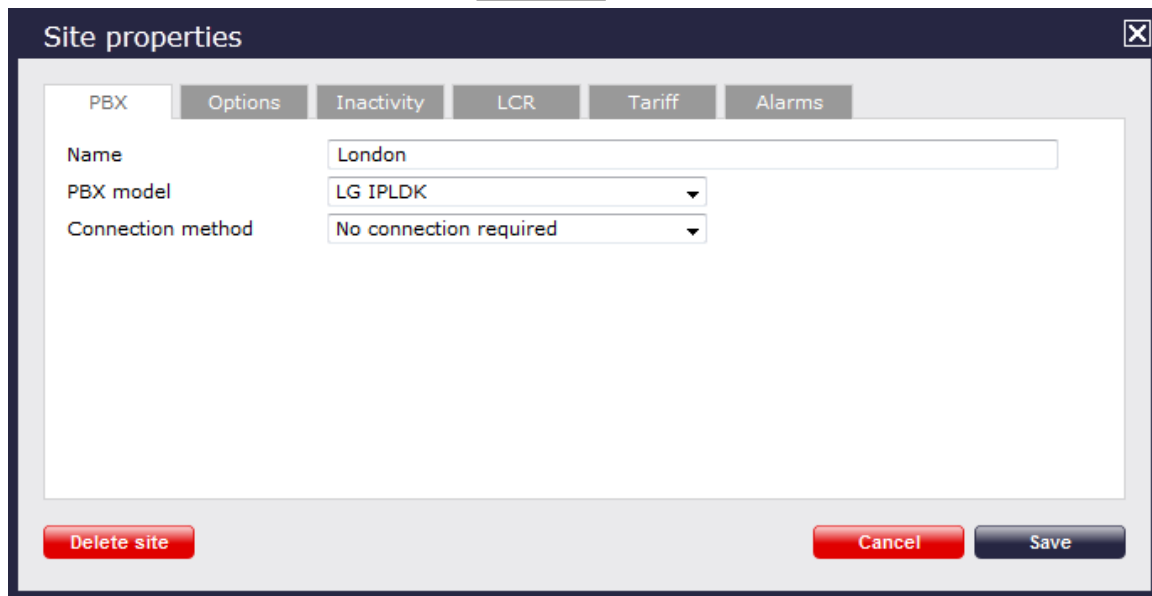
If your LG IPLDK has been configured to send SMDR data via a serial connection, you first need to install the NetPBX software to collect the data from the serial port and send it to TIM Plus. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the sites you want to configure and click **Properties**.



The screenshot shows a 'Site properties' window with the following details:


- Tab:** PBX (selected)
- Name:** London
- PBX model:** LG IPLDK
- Connection method:** No connection required
- Buttons:** Delete site, Cancel, Save

3. In the **Site Properties** window, select **LG IPLDK** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.



LG IPLDK - IP connection

These instructions help you configure your LG IPLDK phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

-  LG IPLDK.TDT
-  LG.TDS

Required Tasks

- Configure the SMDR output
- Configure TIM Plus

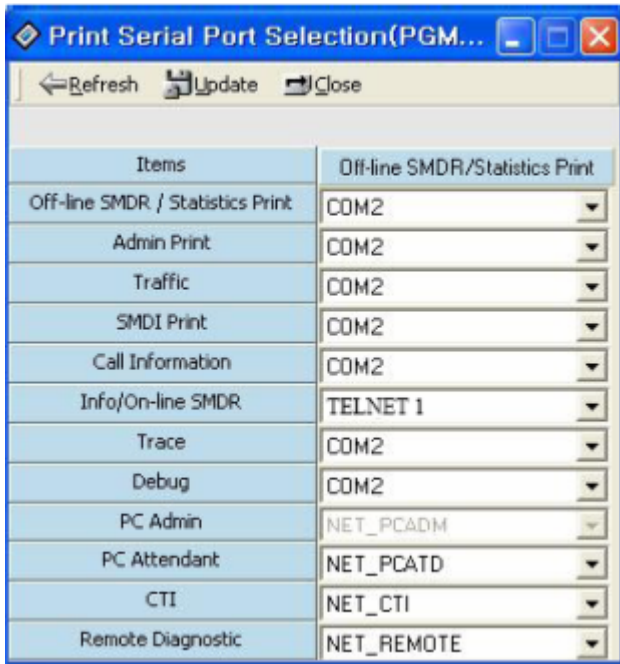
Configuring your SMDR output

The SMDR output on the LG IPLDK is disabled by default. To enable the output, you need to amend the following settings in the programming sections below:

Print Serial Port Selection (PGM 175)

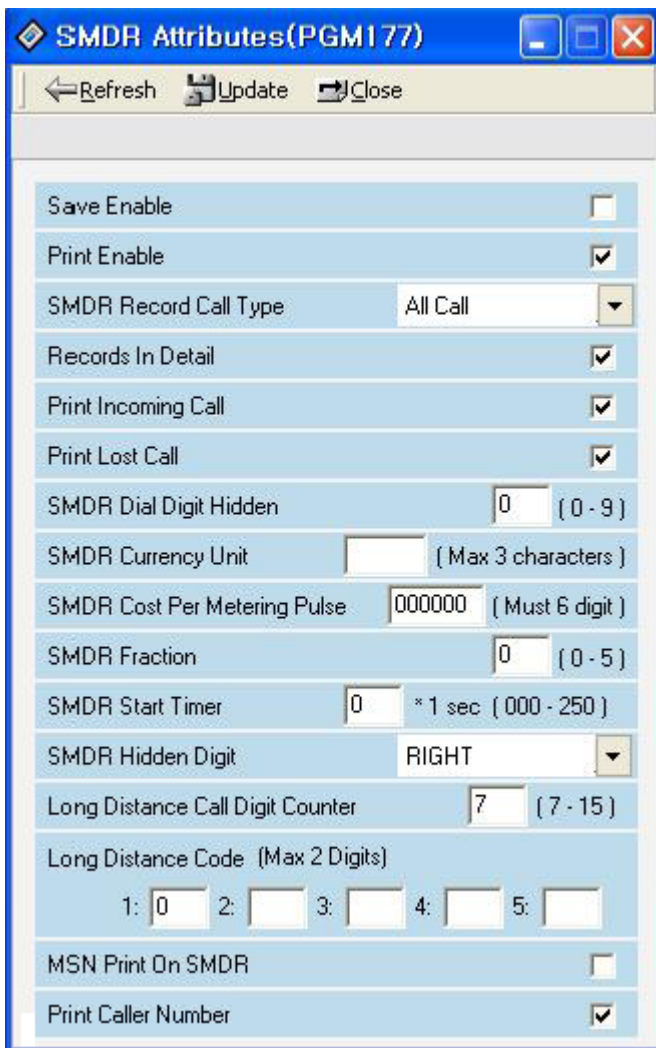
In this window, set **Info/On-line SMDR** to **Telnet 1** to send call logging data to TIM Plus over TCP to port 23..

Here is an example of a populated **Print Serial Port Selection** screen:



SMDR Attributes (PGM 177)

Set the SMDR Attributes as shown below:



ISDN Attributes (PGM 200)

Set the ISDN Attributes as shown below, ensuring that the CLI Print to serial field is enabled:

Configuring TIM Plus

If your LG IPLDK has been configured to send its call logging data via TCP/IP, follow the steps below to configure TIM Plus:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

3. In the **Site Properties** window, select **LG IPLDK** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
5. In the **Host** field, enter the IP address of your LG IPLDK.
6. In the **Port** field, enter **23**.
7. Leave the **Username** and **Password** fields blank.
8. In the **Connection script** field, select **Generic Simple** from the drop-down list.
9. Click on the **Save** button to apply the settings.

Lucent

Lucent EuroGeneris

Please refer to Avaya EuroGeneris.

Matracom

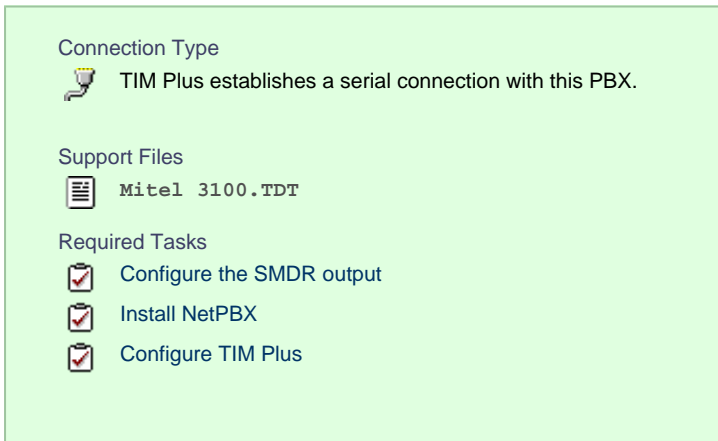
Matracom Matra 65xx series

Please refer to Avaya Matra 65xx series.

Mitel

Mitel 3100

These instructions help you configure your Mitel 3100 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Configuring your SMDR output

Follow the steps below to configure your Mitel 3100 to output SMDR data via a serial connection:

1. Using an RS-232 cable, connect the PC running TIM Plus to the serial port of the Mitel 3100.
2. Launch the Mitel System Tool.
3. Choose **Voice** from the selection menu.
4. Click on the **Management** tab, select **Call Logging**.
5. Click **Change** to set the following parameters:
 - Set the **Cost per minute** to **00**. (This functionality is not supported in NA systems)
 - Set the **Minimum call duration to be recorded** option to **00:00:00**.
 - Set the **Type of calls** option to **All**.
 - Set the **Minimum page length** to **1**.
 - Enable call logging.
6. Click **Save** and commit the changes.

Installing NetPBX

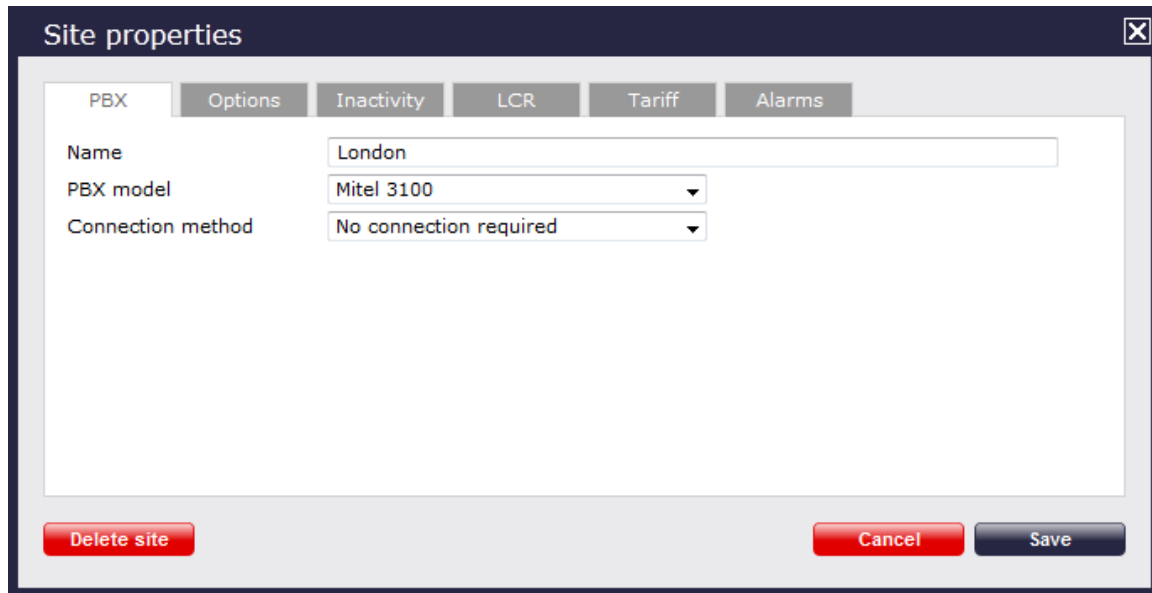
The Mitel 3100 phone system sends SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' window with the following details:


- Tab:** PBX (selected)
- Name:** London
- PBX model:** Mitel 3100
- Connection method:** No connection required
- Buttons:** Delete site, Cancel, Save

3. In the Site Properties window, select **Mitel 3100** from the PBX model drop-down list.
4. In the Connection method field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.



Mitel 3300

These instructions help you configure your Mitel 3300 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

-  Mitel 3300.TDT
-  Mitel 3300.TDS

Required Tasks

- Configure the SMDR output
- Configure TIM Plus

Configuring your SMDR output

Follow the steps below to configure the SMDR options of your Mitel 3300:

1. Log in to the Mitel Communication Director software
2. Click on **System Properties**
3. Click on **System Feature Settings**

4. Click on **SMDR Options**

The screenshot shows the Mitel3300 web interface. At the top, there is a header with the Mitel logo, the text 'Node 'Mitel3300' Alarm Status: Major 201', and a red warning icon. Below the header, there is a navigation bar with 'Mitel3300', a 'View by Category' dropdown, and an 'SDS Share' icon. The main content area is divided into two columns. The left column contains a tree view of settings categories: Licenses, LAN/WAN Configuration, Voice Network, System Properties, System Settings, and System Feature Settings. Under System Feature Settings, 'SMDR Options' is highlighted. The right column shows the 'SMDR Options on Mitel3300' page with a 'Change' button and a list of SMDR options including DASS II - Call Charge In, Extended Digit Length, MCD - Report Transfer, Network Format, Report Account Codes, Report Incoming Calls, Report Internal Calls, Report Meter Pulses, Report Outgoing Calls, SMDR Meter Unit Per S, SMDR Record Transfer, System Identification, Time Change Reporting, Twenty-four Hour Time, ANI/DNIS/ISDN/CLASS I, SMDR Real Time Repor, OLI Node ID Format for, Extended Time To Ans, SMDR File Transfer, Standardized Network, Standardized Call ID Fo, Suite Services Reporti, and Report Internal Unansv.

Set the SMDR options as shown below:

SMDR Options Assignment

DASS II - Call Charge Information Provided:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Extended Digit Length:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
MCD - Report Transfers:	All	
Network Format:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Report Account Codes:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
Report Incoming Calls:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
Report Internal Calls:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
Report Meter Pulses:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Report Outgoing Calls:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
SMDR Meter Unit Per Station:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
SMDR Record Transfer:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
System Identification:	<input type="text"/>	
Time Change Reporting:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Twenty-four Hour Time Reporting:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
ANI/DNIS/ISDN/CLASS Number Delivery Reporting:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
SMDR Real Time Reporting:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
OLI Node ID Format for Incoming Trunk Calls:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Extended Time To Answer:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
SMDR File Transfer:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Standardized Network OLI:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
Standardized Call ID Format:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
Suite Services Reporting:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Report Internal Unanswered Calls:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
SMDR Extended Reporting Level 1:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
Report Attendant Name:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Account Code Reporting for Internal Calls:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
Tag Call Reporting:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Tag Call Identifier:	<input type="text"/>	
Path Reporting for Internal ACD2 Calls:	<input checked="" type="radio"/> No	<input type="radio"/> Yes
Number of destination address digits to mask:	0	
SMDR Extended Reporting Level 2:	<input type="radio"/> No	<input checked="" type="radio"/> Yes
Two B-Channel Transfer Reporting:	<input checked="" type="radio"/> No	Yes

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect SMDR data from your Mitel 3300:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

Site properties

Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Mitel 3300

Connection method: Actively connect to PBX

Host: 192.168.1.1

Port: 1752

Username:

Password:

Connection script: Mitel 3300


Delete site Cancel Save

3. In the `Site Properties` window, select `Mitel 3300` from the `PBX model` drop-down list.
4. In the `Connection method` field, select `Actively connect to PBX` from the drop-down list.
5. In the `Host` field, enter the IP address of your Mitel 3300.
6. In the `Port` field, enter `1752`.
7. Leave the `Username` and `Password` fields blank.
8. In the `Connection script` field, select `Mitel 3300` from the drop-down list.
9. Click on the `Save` button to apply the settings.


Mitel 5000-7000


These instructions help you configure your Mitel 5000-7000 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

 `Mitel 5000-7000.TDT`

 `Mitel 5000-7000.TDS`

Required Tasks

`Configure the SMDR output`

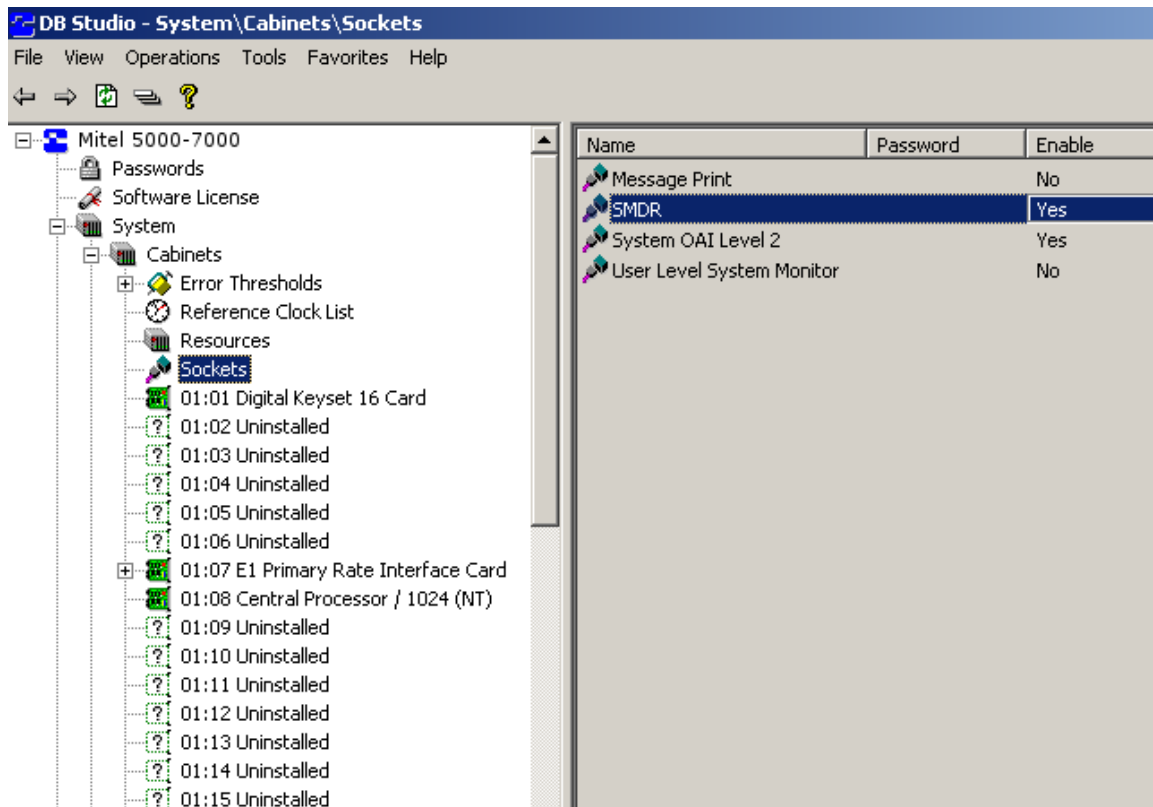
`Configure TIM Plus`

Configuring your SMDR output

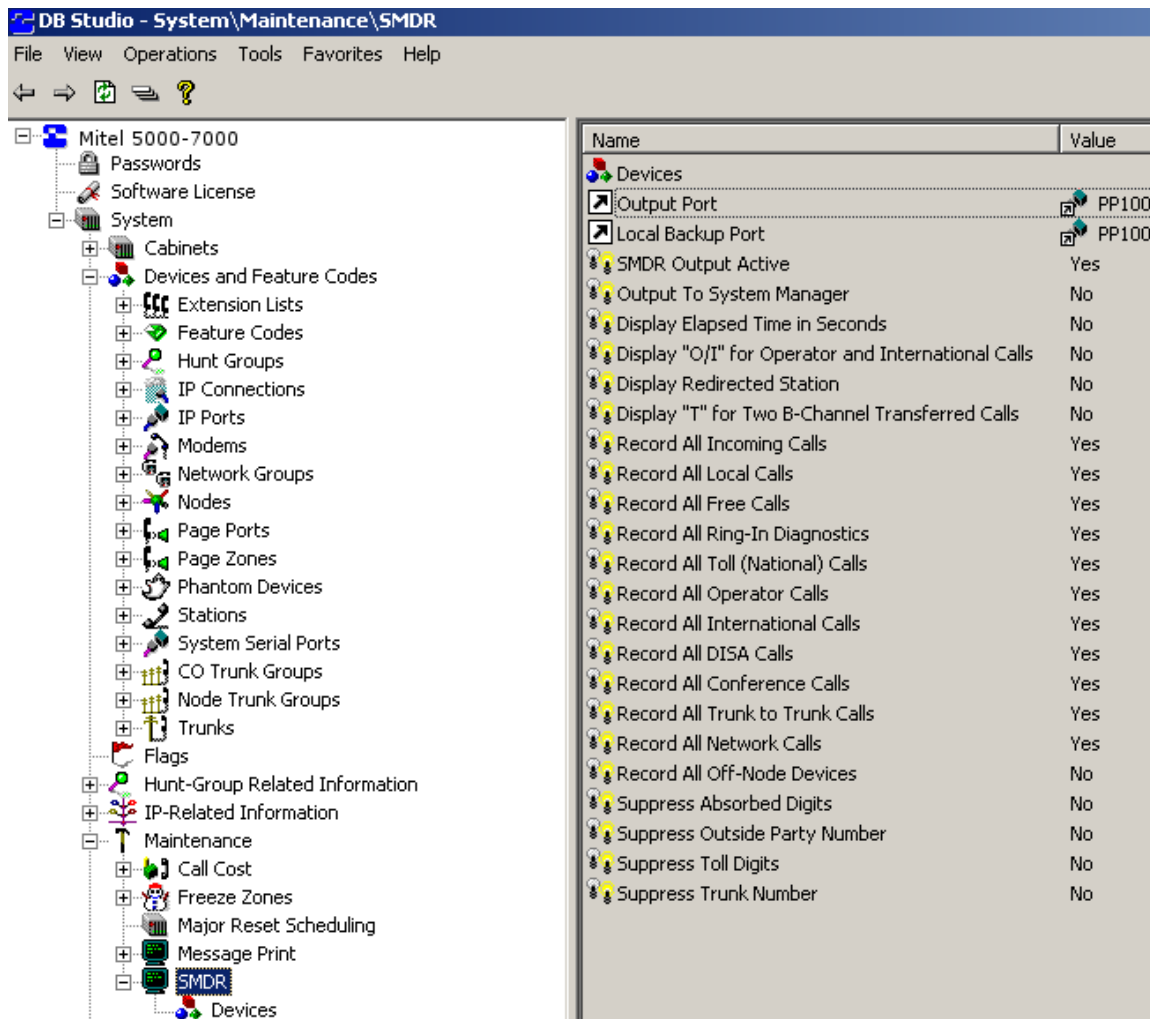
By default, the Mitel 5000-7000 has its SMDR output disabled. Follow the steps below to enable it:

1. Log in to the Mitel DB Studio software.
2. Click and expand the `System` node.

3. Click and expand the **Cabinet** node.
4. Select the **Sockets** node.
5. In the right-hand window, click on the **SMDR** parameter to set its enabled state to **Yes**.



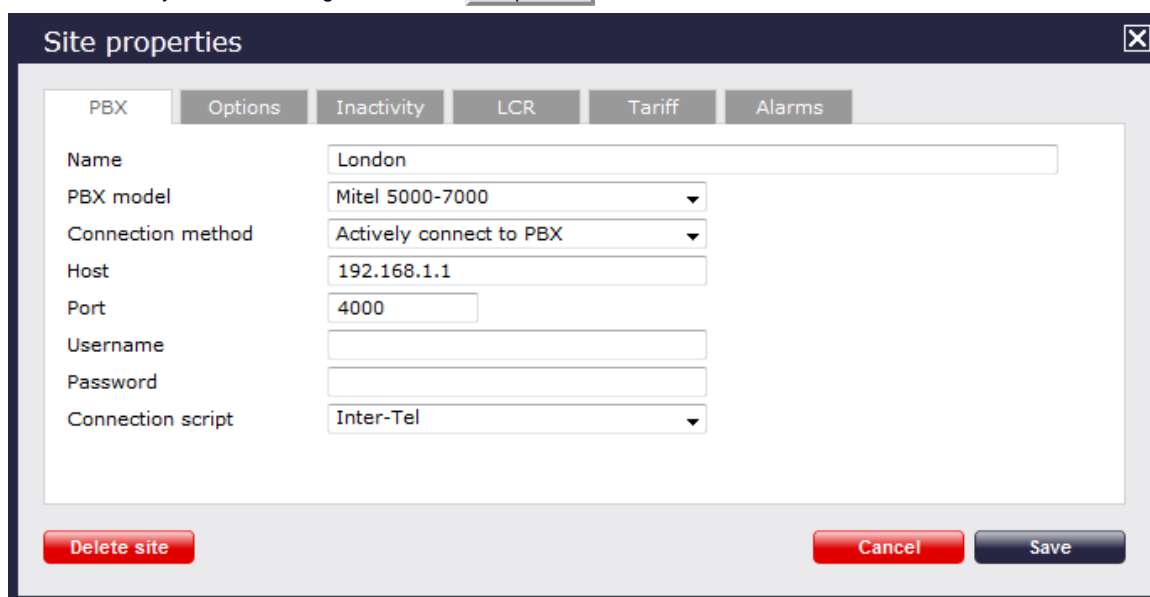
6. Click and expand the **System** icon.
7. Click and expand the **Maintenance** icon.
8. Click on the **SMDR** icon.
9. On the right-hand side you will have the SMDR fields that need to be configured, as shown below:



Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect the SMDR data from your Mitel 5000-7000:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

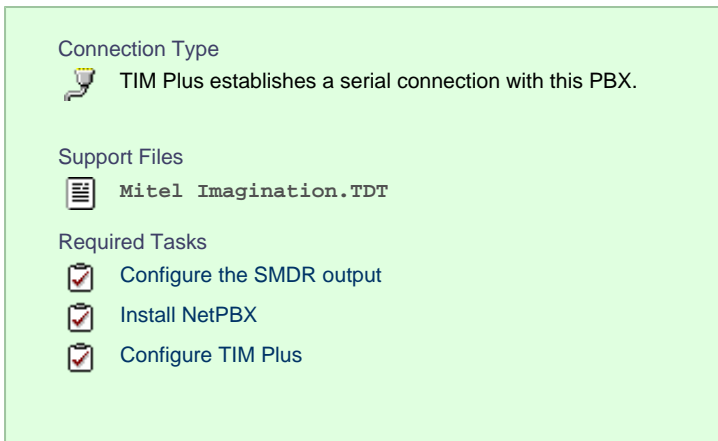


3. In the Site Properties window, select **Mitel 5000-7000** from the **PBX model** drop-down list.

4. In the `Connection method` field, select **Actively connect to PBX** from the drop-down list.
5. In the `Host` field, enter the IP address of your Mitel 5000-7000.
6. In the `Port` field, enter **4000**.
7. Leave the `Username` and `Password` fields blank.
8. In the `Connection script` field, select **Inter-Tel** from the drop-down list.
9. Click on the **Save** button to apply the settings.

Mitel Imagination

These instructions help you configure your Mitel Imagination phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Configuring your SMDR output

The Mitel Imagination phone system sends SMDR information via a serial connection. You need to directly connect a serial cable from your Mitel to the PC that NetPBX is installed and running on.

For more information about the output and configuration of your SMDR data, please contact your system maintainer.

Installing NetPBX

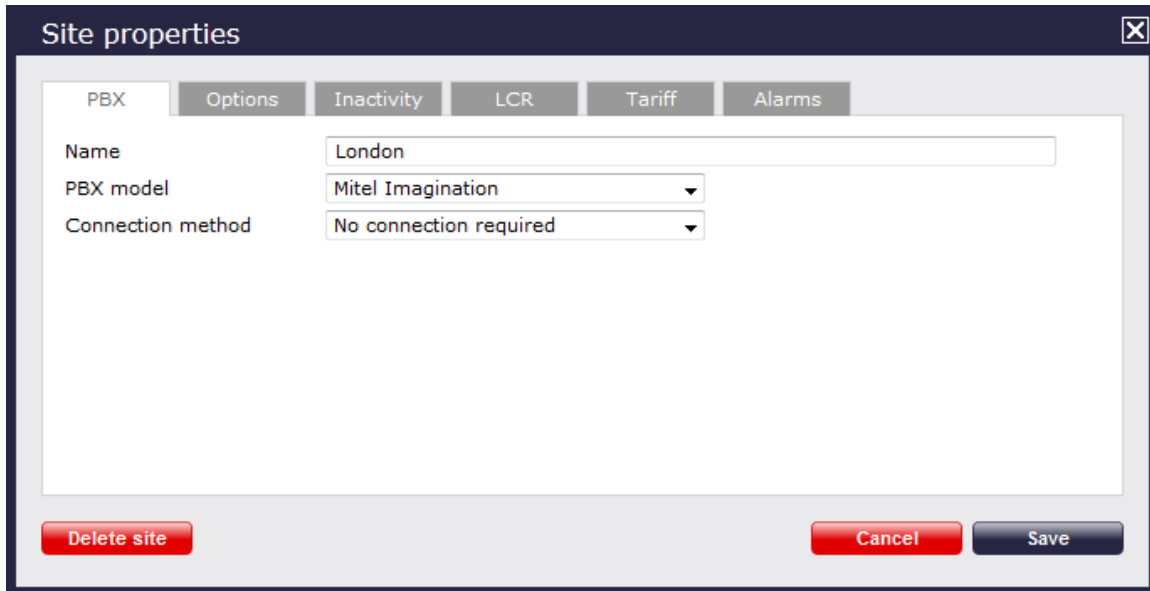
To collect the data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Mitel Imagination

Connection method: No connection required


Delete site Cancel Save

3. In the **Site Properties** window, select **Mitel Imagination** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


Mitel SX50


These instructions help you configure your Mitel SX50 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 Mitel SX50.TDT

 Mitel SX50.TDS

Required Tasks

Configure the SMDR output

Install NetPBX

Configure TIM Plus

Configuring your SMDR output

By default, the SMDR output of your Mitel is not enabled. To enable it, perform the steps below:

1. Within the PBX programming interface choose **Systems Options Programming**.
2. Access **Command 100, register 14**.
3. Set the **Enabled for both incoming and outgoing trunk calls** option.
4. Ensure SMDR is enabled in all of your **Class of Services (Commands 121-129)** and **Trunk Groups (Commands 151-156)**.

Installing NetPBX

The Mitel SX50 phone system sends SMDR information via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

The screenshot shows a 'Site properties' window with the following configuration:

- Name:** London
- PBX model:** Mitel SX50
- Connection method:** No connection required


Buttons at the bottom: Delete site, Cancel, Save.

3. In the **Site Properties** window, select **Mitel SX50** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.



Mitel SX2000

These instructions help you configure your Mitel SX2000 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

-  Mitel SX2000.TDT
-  Mitel SX2000.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

The Mitel SX2000 phone system sends SMDR information via a serial connection. You need to directly connect a serial cable from your Mitel

to the PC that NetPBX is installed and running on. By default, the SMDR output of your Mitel is not enabled. For more information about enabling and configuring the SMDR output, you should speak to your system maintainer.

Installing NetPBX

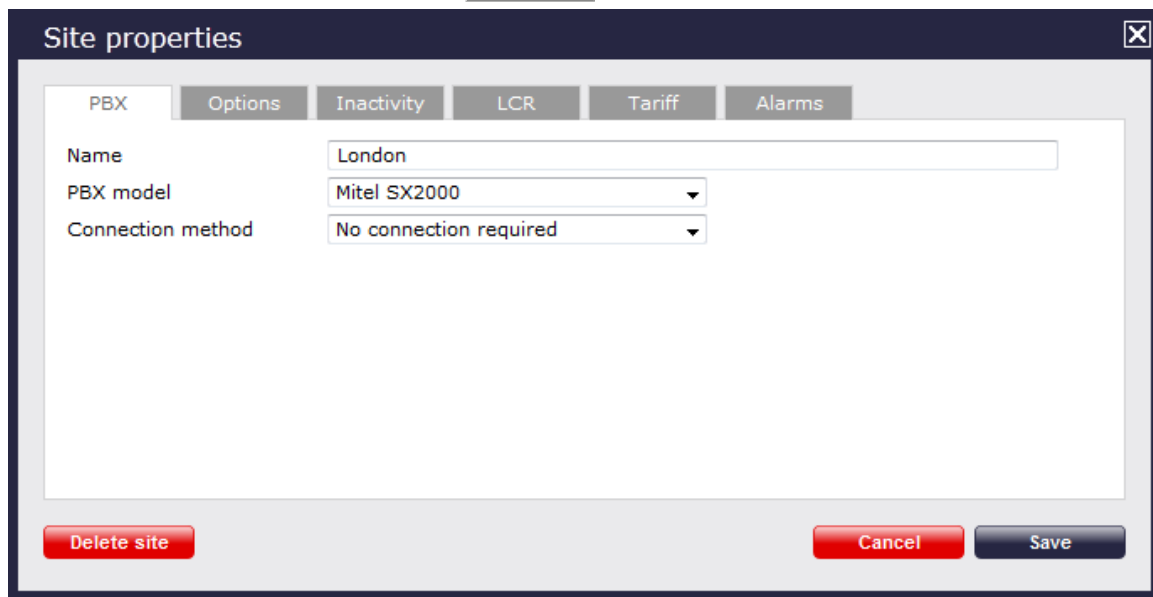
To collect call logging data from the serial port of your Mitel and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



3. In the **Site Properties** window, select **Mitel SX2000** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


NEC



NEC Aspire

The NEC Aspire can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.

NEC Aspire - Serial connection

These instructions help you configure your NEC Aspire phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 NEC Aspire.TDT
 NEC Aspire.TDS

Required Tasks
 Configure the SMDR output
 Install NetPBX
 Configure TIM Plus

Configuring your SMDR output

Follow the steps below to configure the SMDR output on your NEC Aspire:

1. Log in to your PC Pro/Web Pro software.
2. To configure SMDR output by serial port, apply the following settings for each system adapter:

Adapter	Programming code	Value	Description
NTCPU - Serial	10-21-02	1	NTCPU Hardware Setup - Baud Rate for COM Port. Choose the baud rate from the three available options: 0 = 4800, 1 = 9600, and 2 = 38400
	35-01-01	1	SMDR Options - Output Port Type
CTA/CTU - Serial	15-02-19	1	Multi-Line Telephone Basic Data Setup - CTA/CTU Data Communication Module

15-02-20	1	Multi-Line Telephone Basic Data Setup - Baud Rate for CTA/CTU port. Choose from the three available options: 0 = 4800, 1 = 9600, and 2 = 38400
35-01-01	4	SMDR Options - Output Port Type
35-01-02	Extension number that the CTA/CTU adaptor is attached to.	SMDR Options - Output Destination Number

3. Apply the following settings in the programming sections below:

Programming code	Value	Description
14-01-06	1	Basic Trunk Data Setup - SMDR Print.
15-01-03	1	Basic Extension Data Setup - SMDR Print.
35-01-03	0	SMDR Options - Header Language.
35-01-04	0	SMDR Options - Omit (Mask) Digits.
35-01-05	0	SMDR Options - Minimum Number of SMDR Digits.
35-01-06	0	SMDR Options - Minimum Call Duration.
35-01-07	0	SMDR Options - Minimum Ringing Time.
35-01-08	Default	SMDR Options - SMDR Format.

35-02-01	0	SMDR Output Options - Toll Restricted Call.
35-02-02	1	SMDR Output Options - PBX Calls.
35-02-03	1	SMDR Output Options - Display Trunk Name or Numbers.
35-02-04	0	SMDR Output Options - Daily Summary.
35-02-05	0	SMDR Output Options - Weekly Summary.
35-02-06	0	SMDR Output Options - Monthly Summary.
35-02-08	1	SMDR Output Options - Incoming calls.
35-02-09	0	SMDR Output Options - Print Name or Numbers.
35-02-10	0	SMDR Output Options - All Lines Busy (ALB) Output.
35-02-12	0	SMDR Output Options - DID Table Name Output.
35-02-13	1	SMDR Output Options - CLI Output when DID to Trunk.
35-02-14	1	SMDR Output Options - Date.
35-02-15	1	SMDR Output Options - CLI/DID Number Switching.
35-02-16	1	SMDR Output Options - Print Trunk Name or Received Dialed Number.

35-02-17	0	SMDR Output Options - Print Account Code or Caller ID Name.
35-02-18	Default	SMDR Output Options - Caller ID Name Output Method.
80-05-01	1	Date Format for SMDR and System Reports.

Installing NetPBX

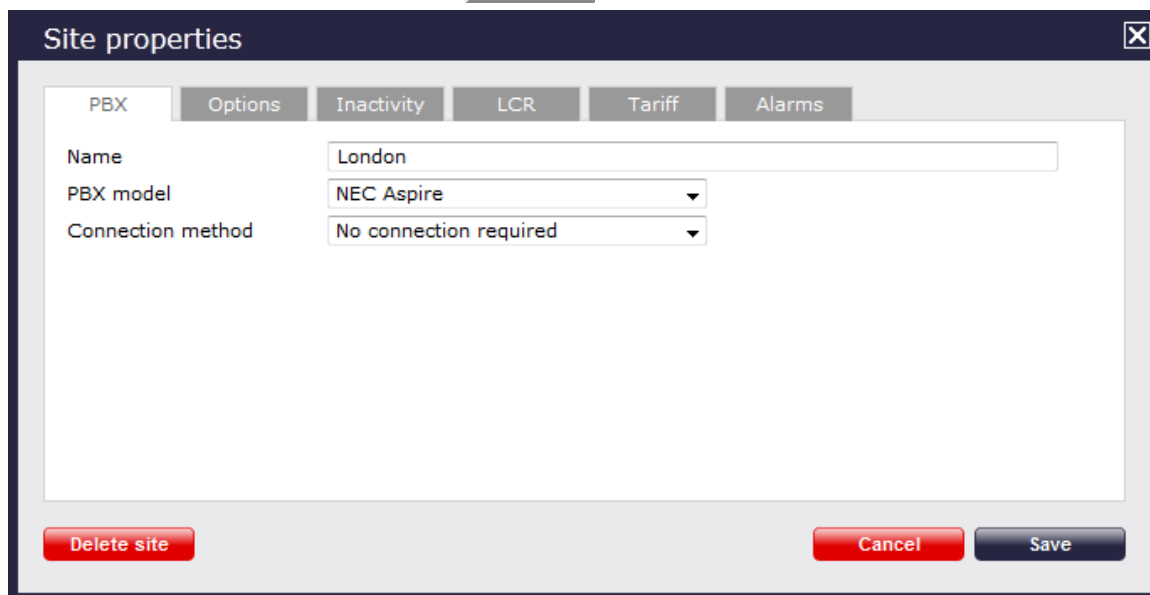
To capture SMDR data from your NEC Aspire using a serial connection, you first need to install the [NetPBX](#) software to collect the data from the serial port and send it to TIM Plus. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.






3. In the **Site Properties** window, select **NEC Aspire** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

NEC Aspire - IP connection

These instructions help you configure your NEC Aspire to work with TIM Plus. Contact your system maintainer if you are not familiar with the

configuration of your PBX.

Connection Type
 TIM Plus establishes a TCP connection to this PBX.

Support Files
 NEC Aspire.TDT
 NEC Aspire.TDS

Required Tasks
 Configure the SMDR output
 Configure TIM Plus

Configuring your SMDR output

Follow the steps below to configure the SMDR output on your NEC Aspire:

1. Log in to your PC Pro/Web Pro software.
2. To configure SMDR output using an IP connection, apply the following settings for each system adapter:

Adapter	Programming code	Value	Description
NTUCPU - IP	10-12-01	IP address of the PC running TIM Plus.	NTUCPU Network Setup - IP Address.
	10-20-01	TCP port that TIM Plus will connect to. We recommend using 9000 and incrementing it for each NEC Aspire you configure.	LAN Setup for External Equipment.

3. Apply the following settings in the programming sections below:

Programming code	Value	Description
14-01-06	1	Basic Trunk Data Setup - SMDR Print.
15-01-03	1	Basic Extension Data Setup - SMDR Print.
35-01-03	0	SMDR Options - Header Language.

35-01-04	0	SMDR Options - Omit (Mask) Digits.
35-01-05	0	SMDR Options - Minimum Number of SMDR Digits.
35-01-06	0	SMDR Options - Minimum Call Duration.
35-01-07	0	SMDR Options - Minimum Ringing Time.
35-01-08	Default	SMDR Options - SMDR Format.
35-02-01	0	SMDR Output Options - Toll Restricted Call.
35-02-02	1	SMDR Output Options - PBX Calls.
35-02-03	1	SMDR Output Options - Display Trunk Name or Numbers.
35-02-04	0	SMDR Output Options - Daily Summary.
35-02-05	0	SMDR Output Options - Weekly Summary.
35-02-06	0	SMDR Output Options - Monthly Summary.
35-02-08	1	SMDR Output Options - Incoming calls.
35-02-09	0	SMDR Output Options - Print Name or Numbers.
35-02-10	0	SMDR Output Options - All Lines Busy (ALB) Output.

35-02-12	0	SMDR Output Options - DID Table Name Output.
35-02-13	1	SMDR Output Options - CLI Output when DID to Trunk.
35-02-14	1	SMDR Output Options - Date.
35-02-15	1	SMDR Output Options - CLI/DID Number Switching.
35-02-16	1	SMDR Output Options - Print Trunk Name or Received Dialed Number.
35-02-17	0	SMDR Output Options - Print Account Code or Caller ID Name.
35-02-18	Default	SMDR Output Options - Caller ID Name Output Method.
80-05-01	1	Date Format for SMDR and System Reports

Configuring TIM Plus

If your NEC Aspire has been configured to send its SMDR data using an IP connection, follow the steps below to configure TIM Plus:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: NEC Aspire

Connection method: Actively connect to PBX

Host: 192.168.1.1

Port: 9000

Username:

Password:

Connection script: Generic Simple


Delete site Cancel Save

3. In the `Site Properties` window, select **NEC Aspire** from the `PBX model` drop-down list.
4. In the `Connection method` field, select **Actively connect to PBX** from the drop-down list.
5. In the `Host` field, enter the IP address of your NEC Aspire.
6. In the `Port` field, enter the port number you configured whilst programming code **10-20-01** (above).
7. Leave the `Username` and `Password` fields blank.
8. In the `Connection script` field, select **Generic Simple** from the drop-down list.
9. Click on the **Save** button to apply the settings.


NEC DXE


These instructions help you configure your NEC DXE phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 NEC DXE.TDT

 NEC DXE.TDS

Required Tasks

Configure the SMDR output

Install NetPBX

Configure TIM Plus

Configure your SMDR output

The NEC DXE phone system sends SMDR information via a serial connection. You need to directly connect a serial cable from your NEC DXE to the PC that **NetPBX** is installed and running on. By default, the SMDR output of your NEC DXE is not enabled. For more information about enabling and configuring the SMDR output, contact your system maintainer.

Installing NetPBX

To collect call logging data from the serial port of your NEC DXE and send it to TIM Plus, you first need to install the **NetPBX** software. For

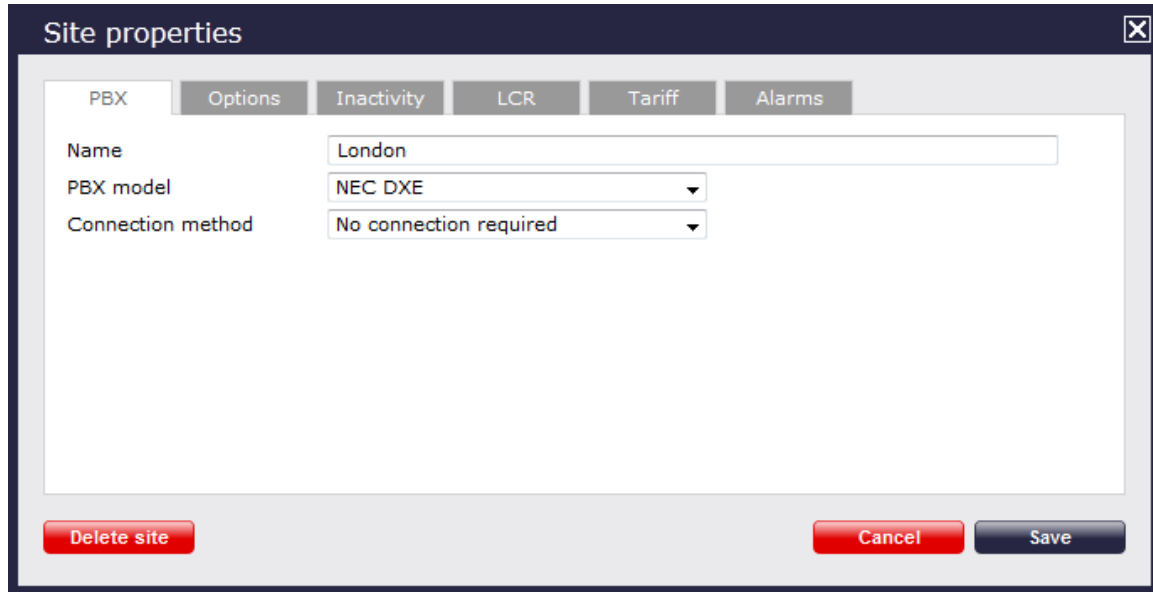
setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' dialog box with the following configuration:

Field	Value
Name	London
PBX model	NEC DXE
Connection method	No connection required


3. In the **Site Properties** window, select **NEC DXE** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the changes.



NEC NEAX

The NEC NEAX can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.

NEC NEAX - Serial connection

These instructions help you configure your NEC NEAX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 NEC NEAX.TDT
 NEC NEAX.TDS

Required Tasks
 Configure the SMDR output
 Install NetPBX
 Configure TIM Plus

Configuring your SMDR output

Using the Customer Administration Terminal (CAT), enter the following settings in the system-programming mode:

Field name	Details
CM40	Default output port and attributes: 9600 baud, 8 data bits, no parity, 2 stop bits, DTR/RTS flow control.
CM13+05	Enable SMDR for incoming calls to required stations.
CM13+06	Enable SMDR for outgoing calls to required stations.
CM35+14	Enable SMDR for outgoing calls to required trunk routes.
CM35+49	Enable SMDR for incoming calls to required trunk routes.
CM08	<p>If SMDR for incoming calls is enabled, specify whether the setting applies to all incoming calls or only to those that use account codes. Also, include <code>ANI/Caller ID</code> for incoming calls.</p> <div style="border: 1px solid green; padding: 5px; margin-top: 10px;"> <p><input checked="" type="checkbox"/> NOTE 1: The <code>ANI/Caller ID</code> is required to provide SMDR data for incoming calls, even if this feature is enabled by CM13+05 and CM35+49.</p> <p>NOTE 2: Use CDR formats #501 (2400 IMS), #505 (2000 IPS), #506 (2000 IVS).</p> </div>

Installing NetPBX

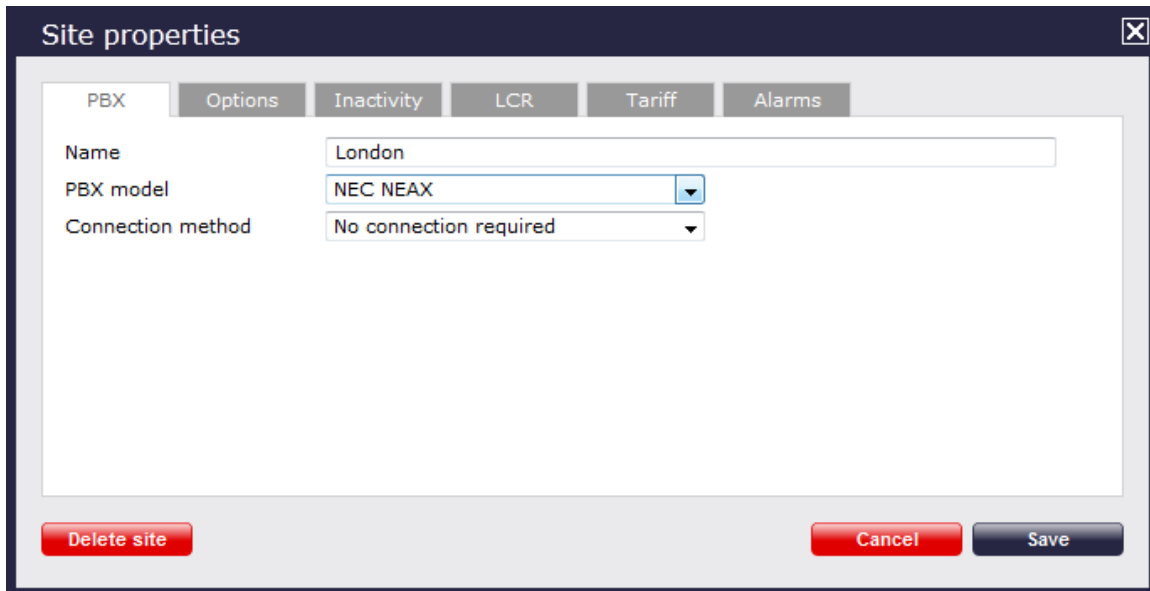
To capture SMDR data from your NEC NEAX using a serial connection, you first need to install the [NetPBX](#) software to collect the data from the serial port and send it to TIM Plus. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' window with the following details:

- Name:** London
- PBX model:** NEC NEAX
- Connection method:** No connection required


Buttons at the bottom: Delete site, Cancel, Save.

3. In the **Site Properties** window, select **NEC NEAX** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.



NEC NEAX - IP connection

These instructions help you configure your NEC NEAX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

-  NEC_NEAX.TDT
-  NEC_NEAX.TDS

Required Tasks

- Configure the SMDR output
- Configure TIM Plus

Configure the SMDR output

By default, the SMDR output of your NEC NEAX is not enabled. For more information about enabling and configuring the SMDR output, contact your system maintainer.

Configuring TIM Plus

If your NEC NEAX has been configured to send its SMDR data using an IP connection, follow the steps below to configure TIM Plus:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

The screenshot shows a 'Site properties' dialog box with the following configuration:

- Name:** London
- PBX model:** NEC NEAX
- Connection method:** Actively connect to PBX
- Host:** 192.168.1.1
- Port:** 2599
- Username:** (empty)
- Password:** (empty)
- Connection script:** Generic Simple

Buttons at the bottom: Delete site (red), Cancel (red), Save (grey).

3. In the **Site Properties** window, select **NEC NEAX** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
5. In the **Host** field, enter the IP address of your NEC NEAX.
6. In the **Port** field, enter **2599**.
7. Leave the **Username** and **Password** fields blank.
8. In the **Connection script** field, select **Generic Simple** from the drop-down list.
9. Click on the **Save** button to apply the settings.


NEC XN120

The NEC XN120 can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.



NEC XN120 - Serial connection

These instructions help you configure your NEC XN120 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

-  NEC DXE.TDT
-  NEC DXE.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

Follow the steps below to configure the SMDR output on your NEC XN120:

1. Log in to your PC Pro/Web Pro software.
2. To configure SMDR output by serial port, apply the following settings:

Adapter	Programming code	Value	Description
NTCPU - Serial	10-21-02	1	NTCPU Hardware Setup - Baud Rate for Com Port. Choose from the three available options: 0(4800), 1(9600) and 2(38400).
	35-01-01	1	SMDR Options - Output Port Type.

3. Apply the following settings in the programming sections below:

Programming code	Value	Description
14-01-06	1	Basic Trunk Data Setup - SMDR Print.
15-01-03	1	Basic Extension Data Setup - SMDR Print.
35-01-03	0	SMDR Options - Header Language.
35-01-04	0	SMDR Options - Omit (Mask) Digits.
35-01-05	0	SMDR Options - Minimum Number of SMDR Digits.
35-01-06	0	SMDR Options - Minimum Call Duration.

35-01-07	0	SMDR Options - Minimum Ringing Time.
35-01-08	Default	SMDR Options - SMDR Format.
35-02-01	0	SMDR Output Options - Toll Restricted Call.
35-02-02	1	SMDR Output Options - PBX Calls.
35-02-03	1	SMDR Output Options - Display Trunk Name or Numbers.
35-02-04	0	SMDR Output Options - Daily Summary.
35-02-05	0	SMDR Output Options - Weekly Summary.
35-02-06	0	SMDR Output Options - Monthly Summary.
35-02-08	1	SMDR Output Options - Incoming calls.
35-02-09	0	SMDR Output Options - Print Name or Numbers.
35-02-10	0	SMDR Output Options - All Lines Busy (ALB) Output.
35-02-12	0	SMDR Output Options - DID Table Name Output.
35-02-13	1	SMDR Output Options - CLI Output when DID to Trunk.
35-02-14	1	SMDR Output Options - Date.
35-02-15	1	SMDR Output Options - CLI/DID Number Switching.

35-02-16	1	SMDR Output Options - Print Trunk Name or Received Dialed Number.
35-02-17	0	SMDR Output Options - Print Account Code or Caller ID Name.
35-02-18	Default	SMDR Output Options - Caller ID Name Output Method.
80-05-01	1	Date Format for SMDR and System Reports.

Installing NetPBX

To capture SMDR data from your NEC XN120 using a serial connection, you first need to install the [NetPBX](#) software to collect the data from the serial port and send it to TIM Plus. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

The screenshot shows a 'Site properties' dialog box with the following configuration:


- Name:** London
- PBX model:** NEC DXE
- Connection method:** No connection required



Buttons at the bottom: Delete site, Cancel, Save.

3. In the **Site Properties** window, select **NEC DXE** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

NEC XN120 - IP connection

These instructions help you configure your NEC XN120 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a TCP connection to this PBX.

Support Files
 NEC DXE . TDT
 NEC DXE . TDS

Required Tasks
 Configure the SMDR output
 Configure TIM Plus

Configuring your SMDR output

Follow the steps below to configure the SMDR output on your NEC XN120:

1. Log in to your PC Pro/Web Pro software.
2. To configure SMDR output using an IP connection, apply the following settings:

Adapter	Programming code	Value	Description
NTUCPU - IP	10-12-01	IP address that TIM Plus will connect to.	NTUCPU Network Setup - IP Address.
	10-20-01	TCP port that TIM Plus will connect to. We recommend using 9000 and incrementing it for each NEC XN120 you configure.	LAN Setup for External Equipment.

3. Apply the following settings in the programming sections below:

Programming code	Value	Description
14-01-06	1	Basic Trunk Data Setup - SMDR Print.

15-01-03	1	Basic Extension Data Setup - SMDR Print.
35-01-03	0	SMDR Options - Header Language.
35-01-04	0	SMDR Options - Omit (Mask) Digits.
35-01-05	0	SMDR Options - Minimum Number of SMDR Digits.
35-01-06	0	SMDR Options - Minimum Call Duration.
35-01-07	0	SMDR Options - Minimum Ringing Time.
35-01-08	Default	SMDR Options - SMDR Format.
35-02-01	0	SMDR Output Options - Toll Restricted Call.
35-02-02	1	SMDR Output Options - PBX Calls.
35-02-03	1	SMDR Output Options - Display Trunk Name or Numbers.
35-02-04	0	SMDR Output Options - Daily Summary.
35-02-05	0	SMDR Output Options - Weekly Summary.
35-02-06	0	SMDR Output Options - Monthly Summary.
35-02-08	1	SMDR Output Options - Incoming calls.

35-02-09	0	SMDR Output Options - Print Name or Numbers.
35-02-10	0	SMDR Output Options - All Lines Busy (ALB) Output.
35-02-12	0	SMDR Output Options - DID Table Name Output.
35-02-13	1	SMDR Output Options - CLI Output when DID to Trunk.
35-02-14	1	SMDR Output Options - Date.
35-02-15	1	SMDR Output Options - CLI/DID Number Switching.
35-02-16	1	SMDR Output Options - Print Trunk Name or Received Dialed Number.
35-02-17	0	SMDR Output Options - Print Account Code or Caller ID Name.
35-02-18	Default	SMDR Output Options - Caller ID Name Output Method.
80-05-01	1	Date Format for SMDR and System Reports.

Configuring TIM Plus

If your NEC XN120 has been configured to send its SMDR data using an IP connection, follow the steps below to configure TIM Plus:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties** .

Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: NEC DXE

Connection method: Actively connect to PBX

Host: 192.168.1.1

Port: 9000

Username:

Password:

Connection script: Generic Simple


Delete site Cancel Save

3. In the `Site Properties` window, select `NEC DXE` from the `PBX model` drop-down list.
4. In the `Connection method` field, select `Actively connect to PBX` from the drop-down list.
5. In the `Host` field, enter the IP address of your NEC XN120.
6. In the `Port` field, enter the port number you configured whilst programming code **10-20-01**.
7. Leave the `Username` and `Password` fields blank.
8. In the `Connection script` field, select `Generic Simple` from the drop-down list.
9. Click on the `Save` button to apply the settings.


NEC SV8100


These instructions help you configure your NEC SV8100 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

 NEC DXE.TDT

 NEC DXE.TDS

Required Tasks

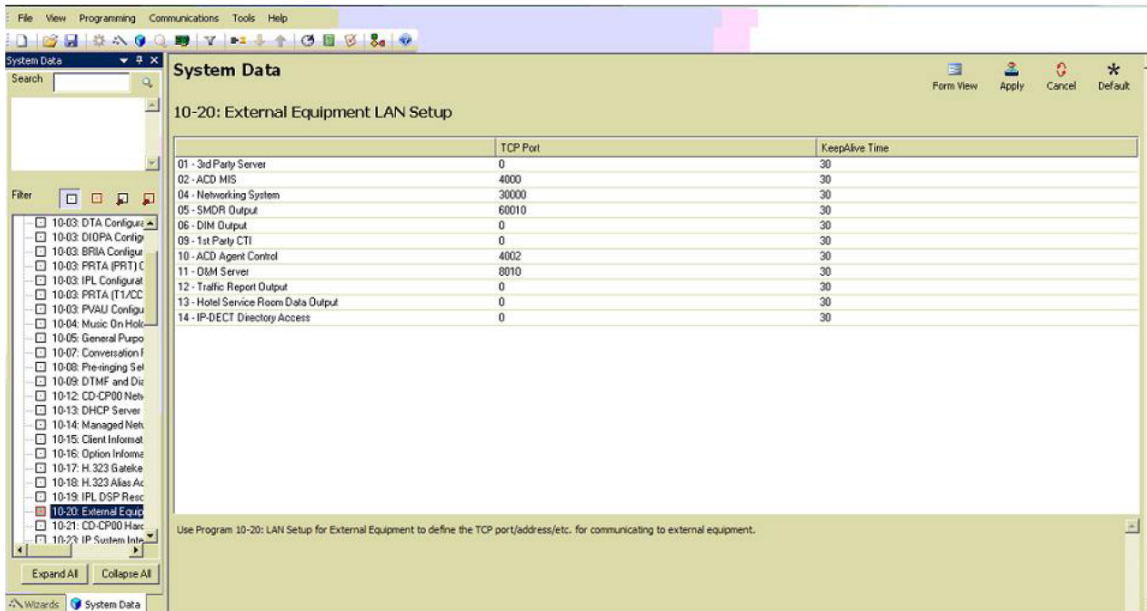
Configure the SMDR output

Configure TIM Plus

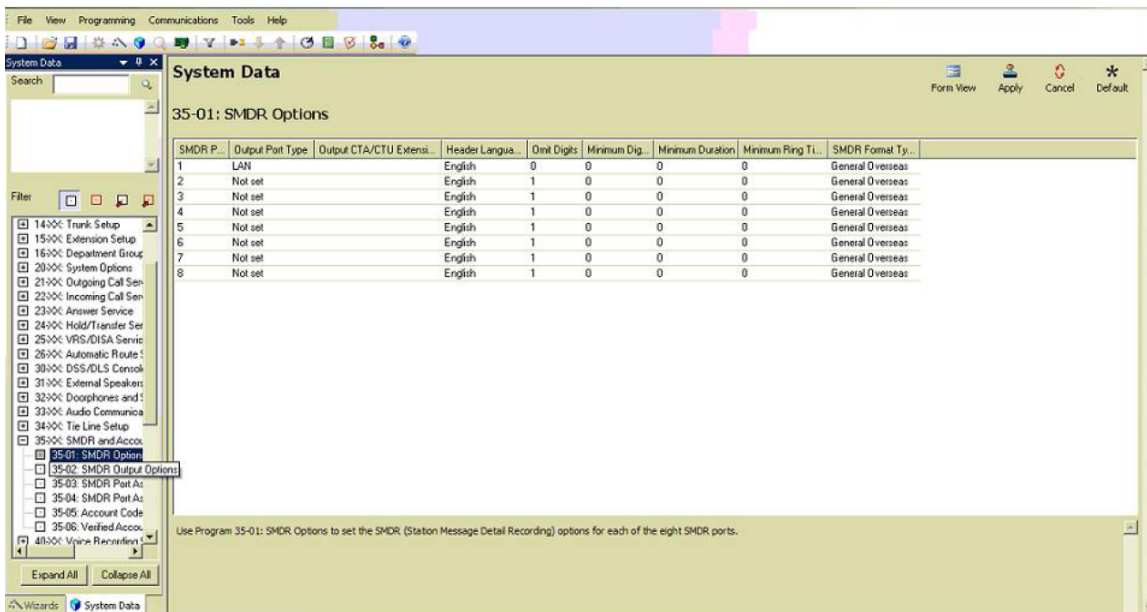
Configuring the SMDR output

Follow the instructions below to configure your NEC SV8100 for use with TIM Plus:

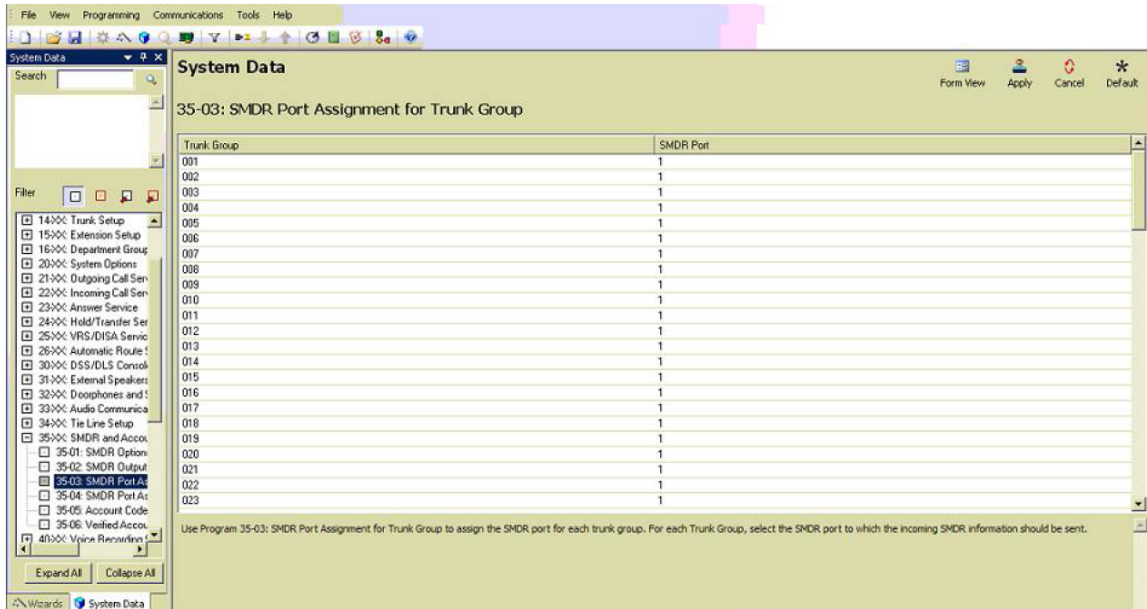
External equipment LAN setup



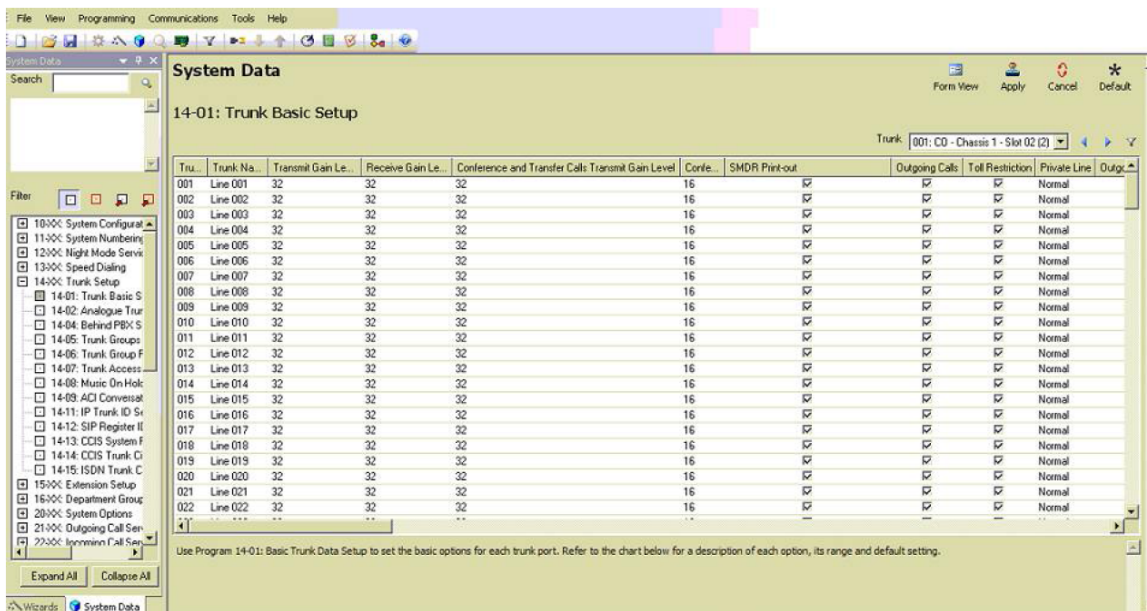
SMDR options



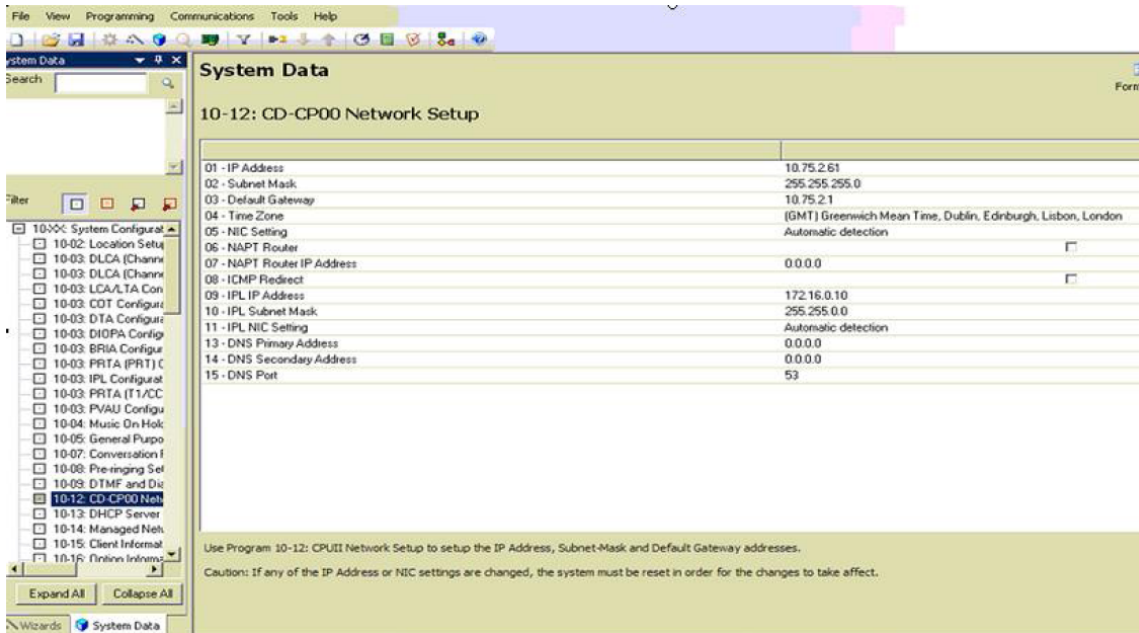
SMDR port assignment for trunk groups



Trunk Basic setup



CD DP00 Network setup



Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect the SMDR data from your NEC SV8100:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

Site properties

PBX | Options | Inactivity | LCR | Tariff | Alarms

Name: London

PBX model: NEC DXE

Connection method: Actively connect to PBX

Host: 192.168.1.1

Port: 60010

Username:

Password:

Connection script: Generic Simple

Buttons: Delete site, Cancel, Save

3. In the **Site Properties** window, select **NEC DXE** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
5. In the **Host** field, enter the IP address of your NEC SV8100.
6. In the **Port** field, enter **60010**.
7. Leave the **Username** and **Password** fields blank.
8. In the **Connection script** field, select **Generic Simple** from the drop-down list.
9. Click on the **Save** button to apply the settings.

Nortel

Nortel BCM up to v3.x

Please refer to Avaya BCM up to v3.x.

Nortel BCM v4.x+

Please refer to Avaya BCM v4.x+ .

Nortel Meridian Option Series

Please refer to Avaya Meridian Option Series.

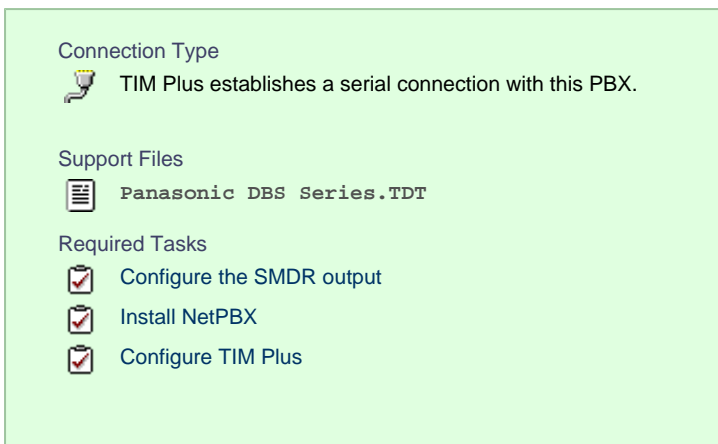
Nortel Norstar

Please refer to Avaya Norstar.

Panasonic

Panasonic DBS Series

These instructions help you configure your Panasonic DBS Series phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Configuring your SMDR output

Follow the steps below to configure your Panasonic DBS Series to output SMDR data to TIM Plus. The configuration needs to be performed from the Operator phone:

1. Press the **ON/OFF** key.
2. Press the **RECALL** key.
3. Press **# #** to enter the **Programming** mode.
4. Navigate to **Call logging/Remote programming** parameters.
5. Go to **Call logging - Parity check** and select **1**, then press the **#** key.
6. Go to **Call logging - Even/Odd parity** and select **1**, then press the **#** key.
7. Go to **Call logging - Baud rate (SMDR)** and select **4**, then press the **#** key.
8. Go to **Call logging - Stop bit** and select **1**, then press the **#** key.

9. Go to **Call logging - Data length** and select **4**, then press the **#** key.
10. Go to **Call logging - Printing selection out/in** and select **1** for incoming and outgoing calls.
11. Go to **Call logging - Printing selection local/long distance calls** and select **1** to print all outgoing calls, then press the **#** key.
12. Press the **ON/OFF** key to save the settings.

Installing NetPBX

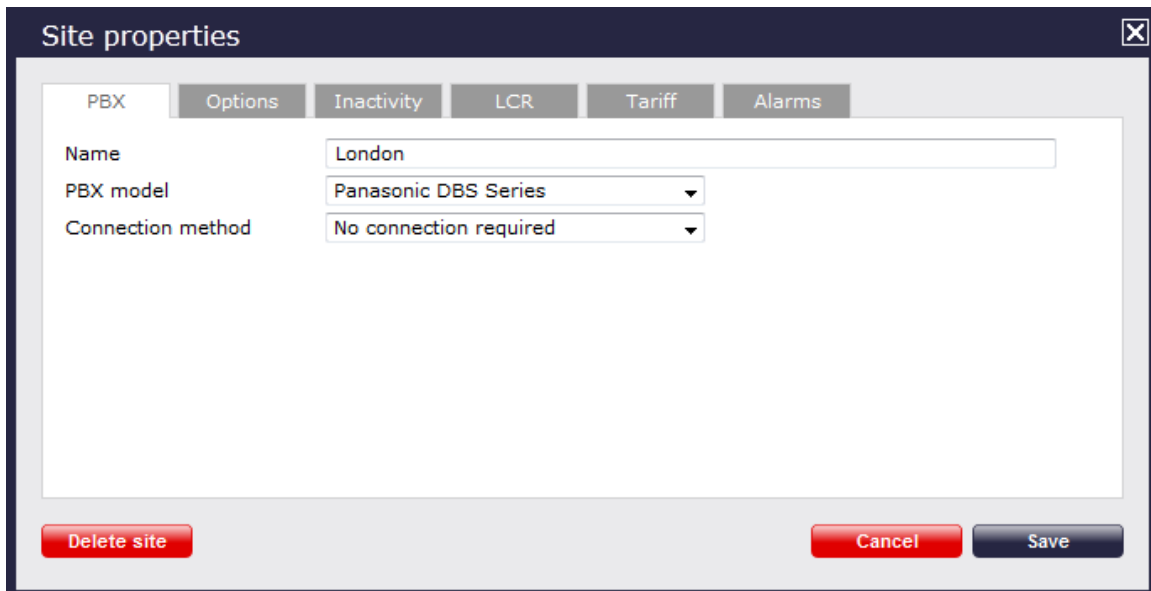
The Panasonic DBS Series phone system sends SMDR information via a serial connection. To collect the call logging data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting call logging data, log in to TIM Plus and perform the steps below:


1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




3. In the **Site Properties** window, select **Panasonic DBS Series** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Panasonic ICX/S-ICX

These instructions help you configure your Panasonic ICX/S-ICX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files
 Panasonic ICX S-ICX.TDT

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring the SMDR output

The Panasonic ICX/S-ICX phone system sends SMDR information via a serial connection. You need to directly connect a serial cable from the Panasonic ICX/S-ICX phone system to the PC that NetPBX is installed and running on. For more information about the output and configuration of your SMDR data, please contact your system maintainer.

Installing NetPBX

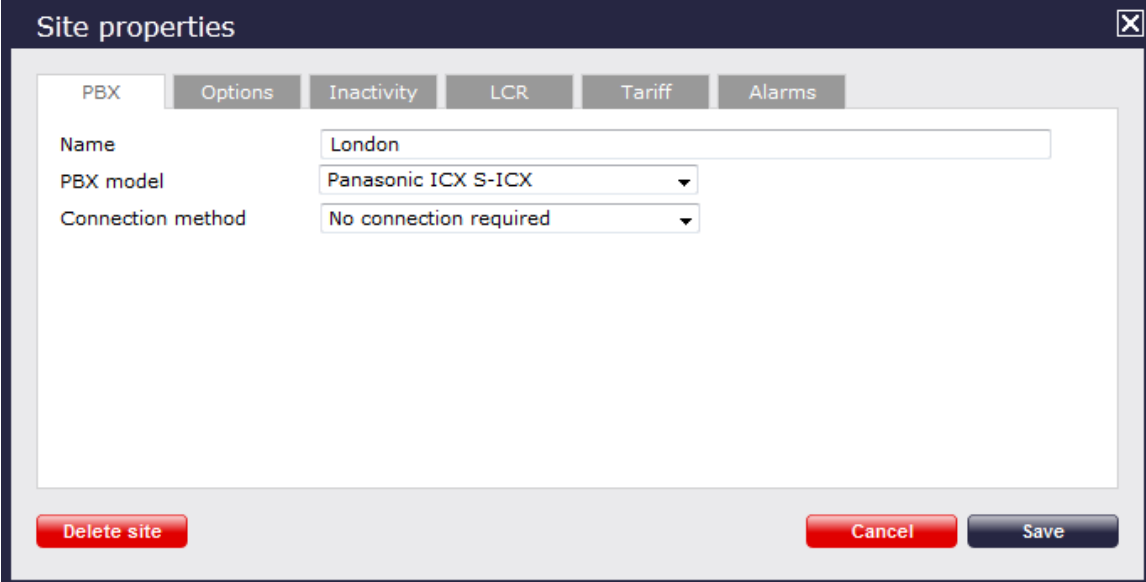
The Panasonic ICX/S-ICX phone system sends SMDR information via a serial connection. To collect the call logging data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:


1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.





3. In the **Site Properties** window, select **Panasonic ICX S-ICX** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Panasonic KX-TA/TE

These instructions help you configure your Panasonic KX-TA/TE phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files

-  Panasonic KX-TD Series.TDT
-  Panasonic KX-TD Series.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring the SMDR output

Follow the steps below to configure your Panasonic KX-TA/TE to output SMDR data to TIM Plus. The configuration needs to be performed from a Panasonic KX-T7130 phone:

1. Set the System Program Switch on the EMSS Control Unit to the **Programming** position.
2. Press **-** ***** followed by the **#** key, then enter your system password.
3. Press **#** **#** to enter the **Programming mode**.
4. Go to programming code **800** and set each of the fields as shown below. Press **Store** and then **Next** after each entry in order to move to the next field:

SMDR field	Value
NL-Code	CR+LF
Baud Rate	9600
Word Length	8 bits
Parity	None
Stop Bit	1 bit

5. Go to programming code **801** and set each of the fields as shown below. Press **Store** and then **Next** after each entry in order to move to the next field:

SMDR field	Value
Page Length	Leave as default

Skip Perf	Leave as default
------------------	------------------

6. Go to programming code **802** and set each of the fields as shown below. Press **Store** and then **Next** after each entry in order to move to the next field:

SMDR field	Value
Outgoing	On
Incoming	On

7. Set the System Program Switch back to **Store** position.

Installing NetPBX

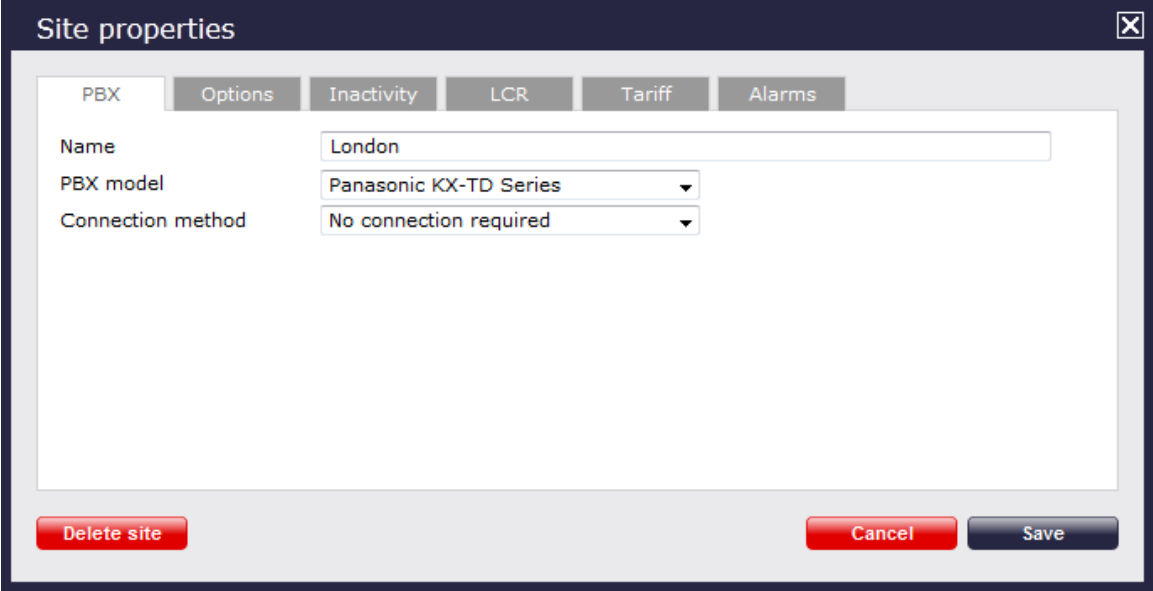
The Panasonic KX-TA/TE phone system sends SMDR information via a serial connection. To collect the call logging data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



3. In the **Site Properties** window, select **Panasonic KX-TD Series** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings


Panasonic KX-TDA/E/NCP500/1000

The Panasonic KX-TDA/E/NCP500/1000 can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.


Panasonic KX-TDA/E/NCP500/1000 - Serial connection


These instructions help you configure your Panasonic KX-TDA/E/NCP500/1000 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 Panasonic KX-TD Series.TDT

 Panasonic KX-TD Series.TDS

Required Tasks

Configure the SMDR output

Install NetPBX

Configure TIM Plus

Configuring the SMDR output

Follow the steps below to configure your Panasonic phone system to output SMDR to TIM Plus.

1. Log in to the Panasonic Maintenance Console program.
2. Click on the **11. Maintenance** tab from the left-hand menu.
3. Click on the **SMDR** tab and configure the options as shown below:

OK(O) Cancel(C) Apply(A)

SMDR SMDR Options RS232C Maintenance Syslog Remote Password

SMDR Format

Type: Type C

Port: RS-232C

Page Length (Number of Lines): 66

Blank Footer Length (Number of Lines): 0

Date Format: DD-MM-YY

Time Format (12H / 24H): 24H

Print Information

Outgoing Call: Print

Incoming Call: Print

Intercom Call: No Print

Log-in / Log-out: No Print

Hotel Room Status: No Print

Timed Reminder (Wake-up Call): No Print

Error Log: No Print

4. Click on the **SMDR Options** tab and configure the options as shown below:

OK(O) Cancel(C) Apply(A)

SMDR SMDR Options RS232C Maintenance Syslog Remote Password

Option

ARS Dial: Dial after ARS Modification

Caller ID Number & Name: Number

DDI / DID Number & Name: Number

Secret Dial: Print "..." (Secret)

Privacy Mode: Print Dialed Number

Condition Code "RC": Print

Condition Code "AN": Print

Caller ID Modification: After Modification

LAN

SMDR Port Number: 2300

SMDR Password : PCCSMDR

New-Line Code for Telnet : CR + LF

*) Perform System Reset for changes to take effect

5. Click on the **Apply** button to save the changes.

Installing NetPBX

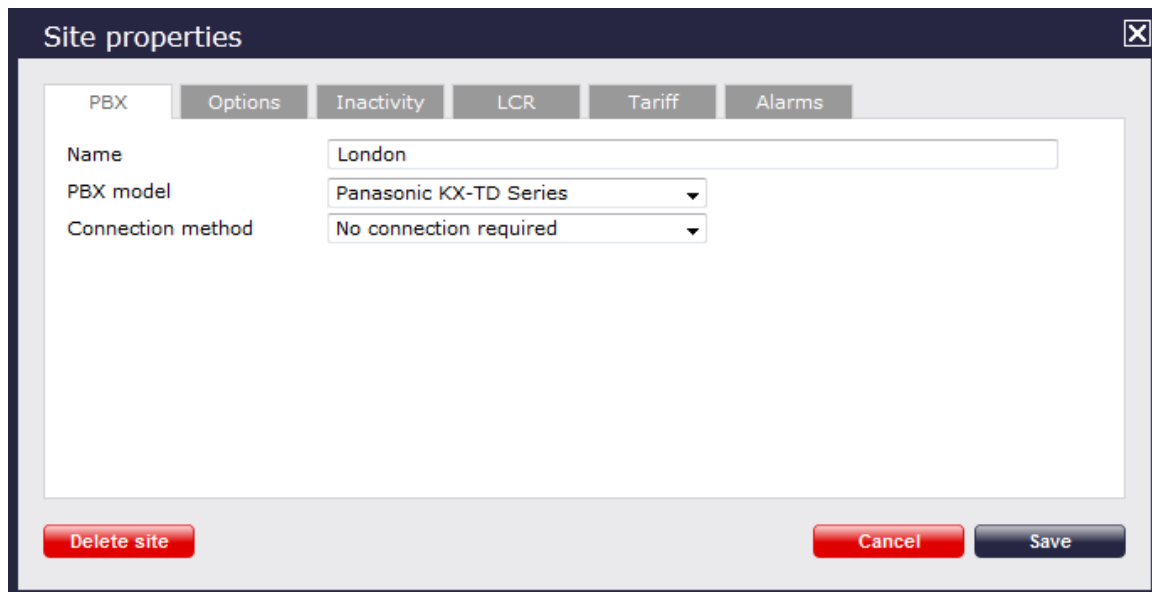
The Panasonic KX-TDA/E/NCP500/1000 phone systems can send SMDR information via a serial connection. To collect the call logging data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Panasonic KX-TD Series

Connection method: No connection required


Delete site Cancel Save

3. In the **Site Properties** window, select **Panasonic KX-TD Series** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


Panasonic KX-TDA/E/NCP500/1000 - IP connection


These instructions help you configure your Panasonic KX-TDA/E/NCP500/1000 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

 Panasonic KX-TD Series.TDT

 Panasonic KX-TD Series.TDS

Required Tasks

Configure the SMDR output

Configure TIM Plus

Configuring your SMDR

Follow the instructions below to configure your Panasonic to output SMDR data to TIM Plus via an IP connection:

1. Log in to the Panasonic Maintenance Console program.
2. Click on the **11. Maintenance** tab from the left-hand menu.
3. Click on the **SMDR** tab and configure the options as shown below:

OK(O) Cancel(C) Apply(A)

SMDR SMDR Options RS232C Maintenance Syslog Remote Password

SMDR Format

Type: Type C

Port: LAN

Page Length (Number of Lines): 66

Blank Footer Length (Number of Lines): 0

Date Format: DD-MM-YY

Time Format (12H / 24H): 24H

Print Information

Outgoing Call: Print

Incoming Call: Print

Intercom Call: No Print

Log-in / Log-out: No Print

Hotel Room Status: No Print

Timed Reminder (Wake-up Call): No Print

Error Log: No Print

4. Click on the **SMDR Options** tab and configure the options as shown below:

5. Click on the **Apply** button to save the changes.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to connect to your Panasonic phone system:


1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

3. In the **Site Properties** window, select **Panasonic KX-TD Series** from the **PBX model** drop-down list.



4. In the `Connection method` field, select **Actively connect to PBX** from the drop-down list.
5. In the `Host` field, enter the IP address of your phone system.
6. In the `Port` field, enter **2300**.
7. Leave the `Username` field blank.
8. In the `Password` field, enter the password required to connect to your phone system, by default **PCCSMDR**.
9. In the `Connection script` field, select **Panasonic** from the drop-down list.
10. Click on the **Save** button to apply the settings.

Panasonic KX-TD Series

These instructions help you configure your Panasonic KX-TD Series phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files

-  `Panasonic KX-TD Series.TDT`
-  `Panasonic KX-TD Series.TDS`

Required Tasks

- `Configure the SMDR output`
- `Install NetPBX`
- `Configure TIM Plus`

Configuring your SMDR output

Follow the instructions below to configure your Panasonic KX-TD phone system to output SMDR data to TIM Plus. The configuration needs to be performed from a Digital Proprietary Telephone (DPT) such as the KX-T7431, KX-T7433, KX-T7436, KX-T7230, KX-T7235.

1. Press the **PROG** + ***** + **#** buttons simultaneously, then enter your system password.
2. Enter programming mode **800** and press the **Next** button.
3. Press the **Select** button to set the `Outgoing` option to **All**, then click on the **Store** button. Click **Next**.
4. Press the **Select** button to set the `Incoming` option to **All**, then press the **Store** button.
5. Press the **End** button to complete the configuration.

Installing NetPBX

The Panasonic KX-TD Series phone system sends SMDR information via a serial connection. To collect the call logging data from the serial port and send it to TIM Plus, you first need to install the **NetPBX** software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting call logging data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.

- Choose the site you want to configure and click **Properties** .

The screenshot shows a 'Site properties' window with the following details:


- Tab:** PBX (selected)
- Name:** London
- PBX model:** Panasonic KX-TD Series
- Connection method:** No connection required
- Buttons:** Delete site, Cancel, Save

- In the **Site Properties** window, select **Panasonic KX-TD Series** from the **PBX model** drop-down list.
- In the **Connection method** field, select **No connection required** from the drop-down list.
- Click on the **Save** button to apply the settings.



Samsung

Samsung DCS

These instructions help you configure your Samsung DCS phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a serial connection with this PBX.

Support Files

-  Samsung DCS.TDT
-  Samsung DCS.TDS

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your SMDR output

Follow the instructions below to configure your Samsung DCS to output SMDR data to TIM Plus. The configuration needs to be performed from an LCD handset.

- Open **Programming** and select **725**.
- Program each option as presented below:

SMDR field	Value
Page Header	Yes
Lines per page	1
Incoming Call	Yes
Outgoing Call	Yes
Authorise Code	Yes
SMDR Start Time	Yes
In/Out Group	No
DND Calls	No
Wake-Up Calls	No
Directory Names	None
Caller ID Data	Yes
Abandoned Call	Yes
No of Dial Mask	00
DID Num/Name	Yes

- Next, press the **SPKR** key and select 804.
- Dial 0 and use the arrow keys to select **SMDR**.
- Press the **TRSF** key to complete the configuration.

Installing NetPBX

The Samsung DCS phone system sends SMDR data via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the [NetPBX](#) software. For setup instructions, click on the link below:

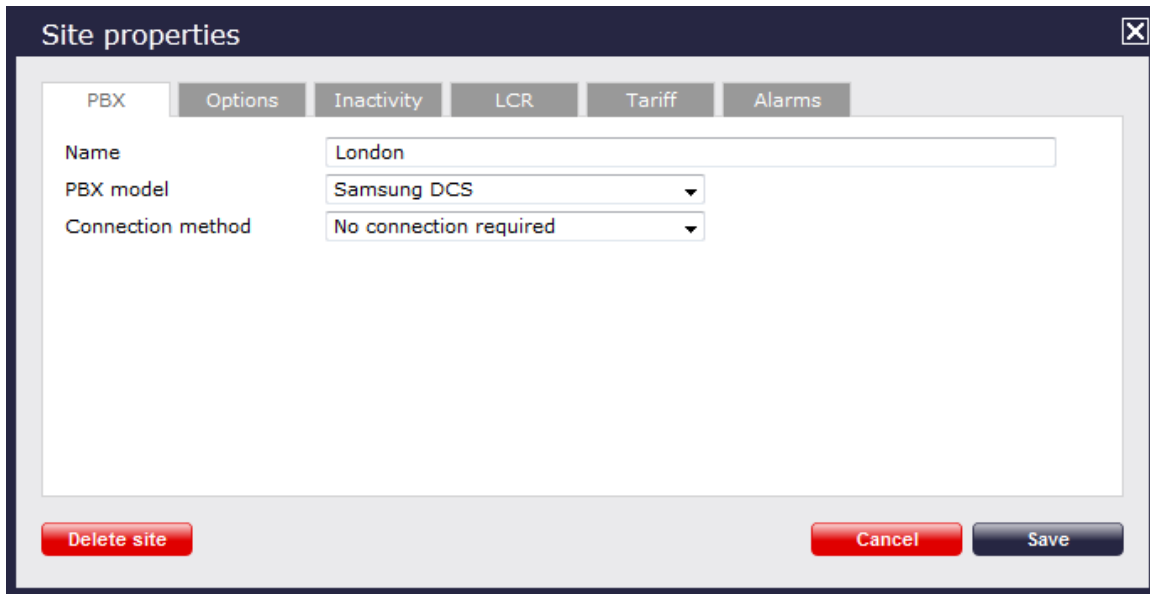
[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

- Click on the **Directory** tab.

- Choose the site you want to configure and click **Properties** .



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Samsung DCS

Connection method: No connection required

Delete site Cancel Save

- In the **Site Properties** window, select **Samsung DCS** from the **PBX model** drop-down list.
- In the **Connection method** field, select **No connection required** from the drop-down list.
- Click on the **Save** button to apply the settings.


Samsung iDCS

The Samsung iDCS can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.


Samsung iDCS - Serial connection


These instructions help you configure your Samsung iDCS phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 Samsung DCS.TDT

 Samsung DCS.TDS

Required Tasks

Configure the SMDR output

Install NetPBX

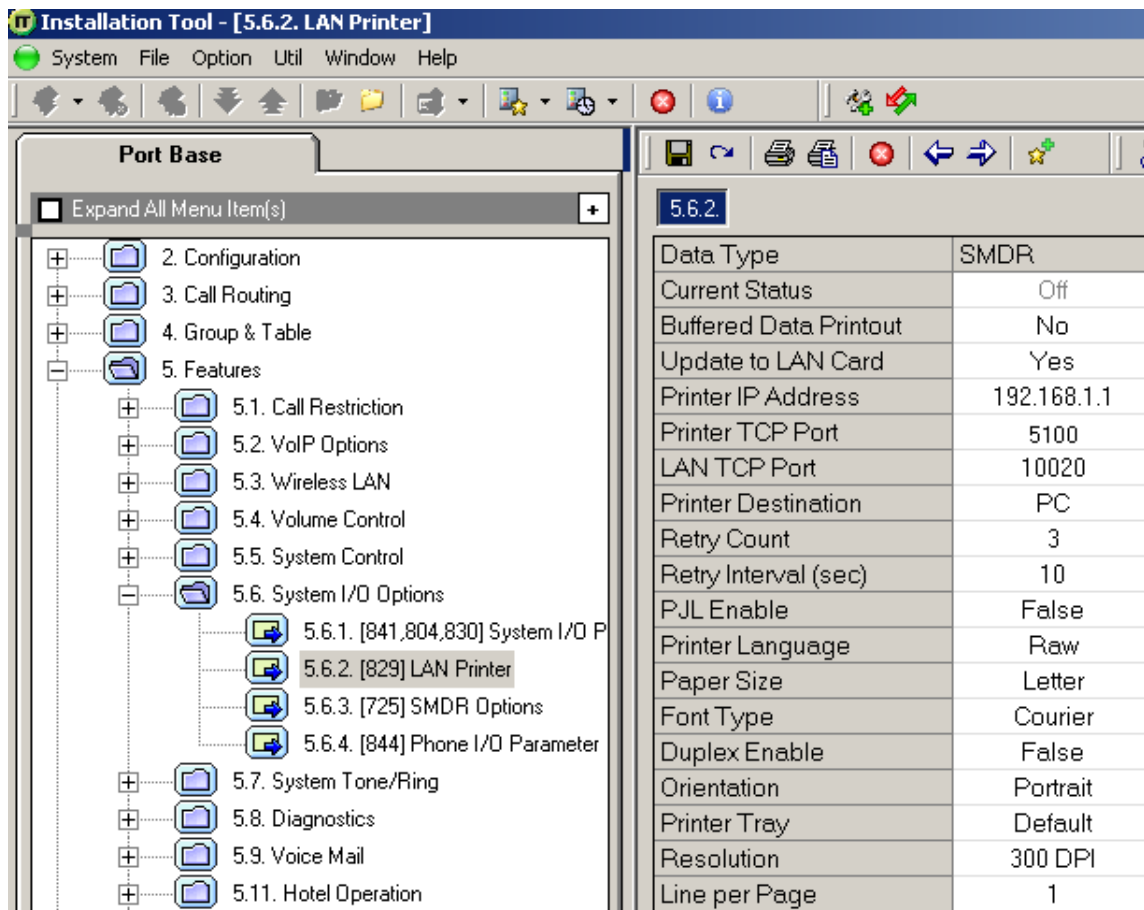
Configure TIM Plus

Configuring your SMDR output

Follow the instructions below to configure your Samsung iDCS to output SMDR data to TIM Plus.

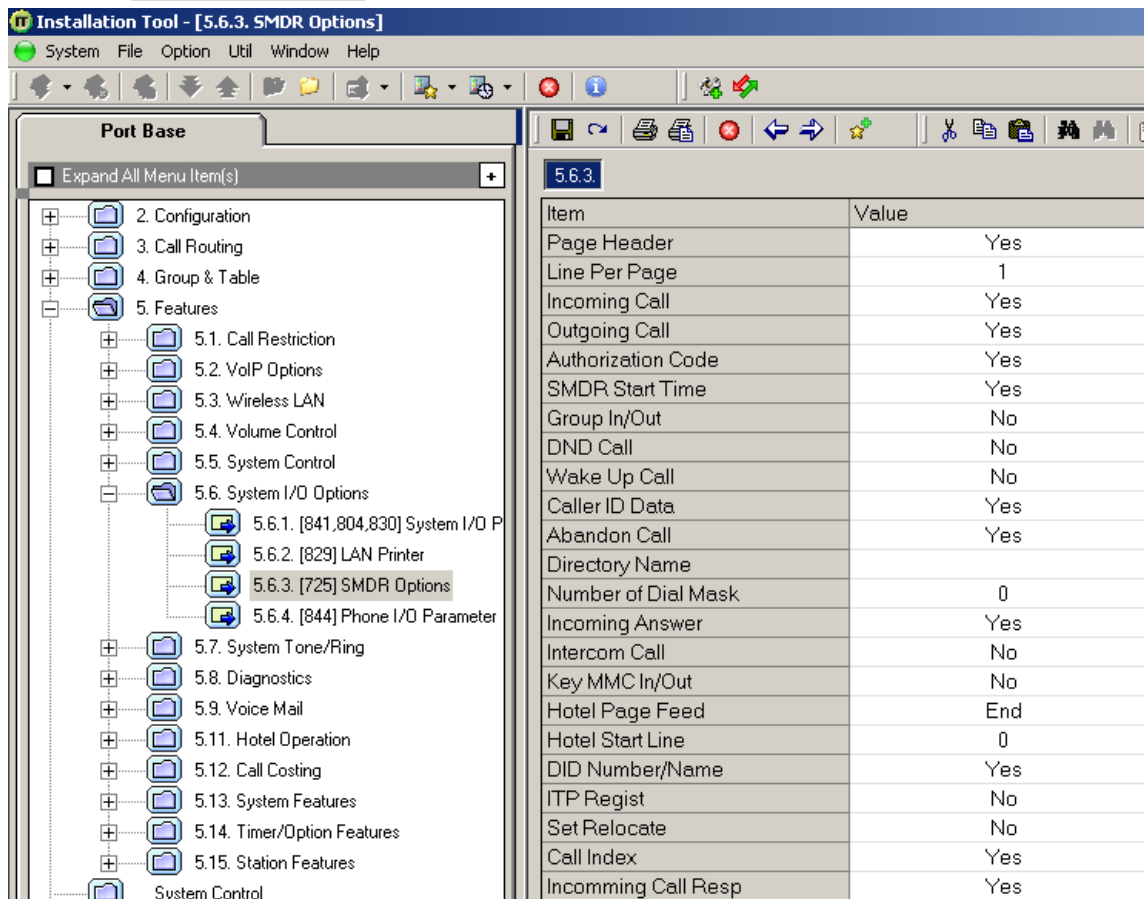
- Log in to the Samsung Installation Tool software.
- Click on the **5. Features** option from the left-hand menu.
- Click on the **5.6 System I/O Options** tab and select **5.6.2. LAN Printer** .

4. In the LAN Printer options configure the entries in the SMDR column, as shown below:



5. Click on the Save icon to save the settings.

6. Click on the 5.6.3. SMDR Options tab and configure the following settings:



- Click on the **Save** icon at the top of the window to save the settings.

Installing NetPBX

The Samsung iDCS phone system can send its SMDR data via a serial connection. To collect the data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the following steps:

- Click on the **Directory** tab.
- Choose the site you want to configure and click **Properties**.

The screenshot shows a 'Site properties' dialog box with the following configuration:

- Name:** London
- PBX model:** Samsung DCS
- Connection method:** No connection required


Buttons at the bottom: Delete site, Cancel, Save.

- In the site Properties window, select **Samsung DCS** from the PBX model drop-down list.
- In the Connection method field select **No connection required** from the drop-down list.
- Click on the **Save** button to apply the settings.



Samsung iDCS - IP connection

These instructions help you configure your Samsung iDCS phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

-  Samsung DCS.TDT
-  Samsung DCS.TDS

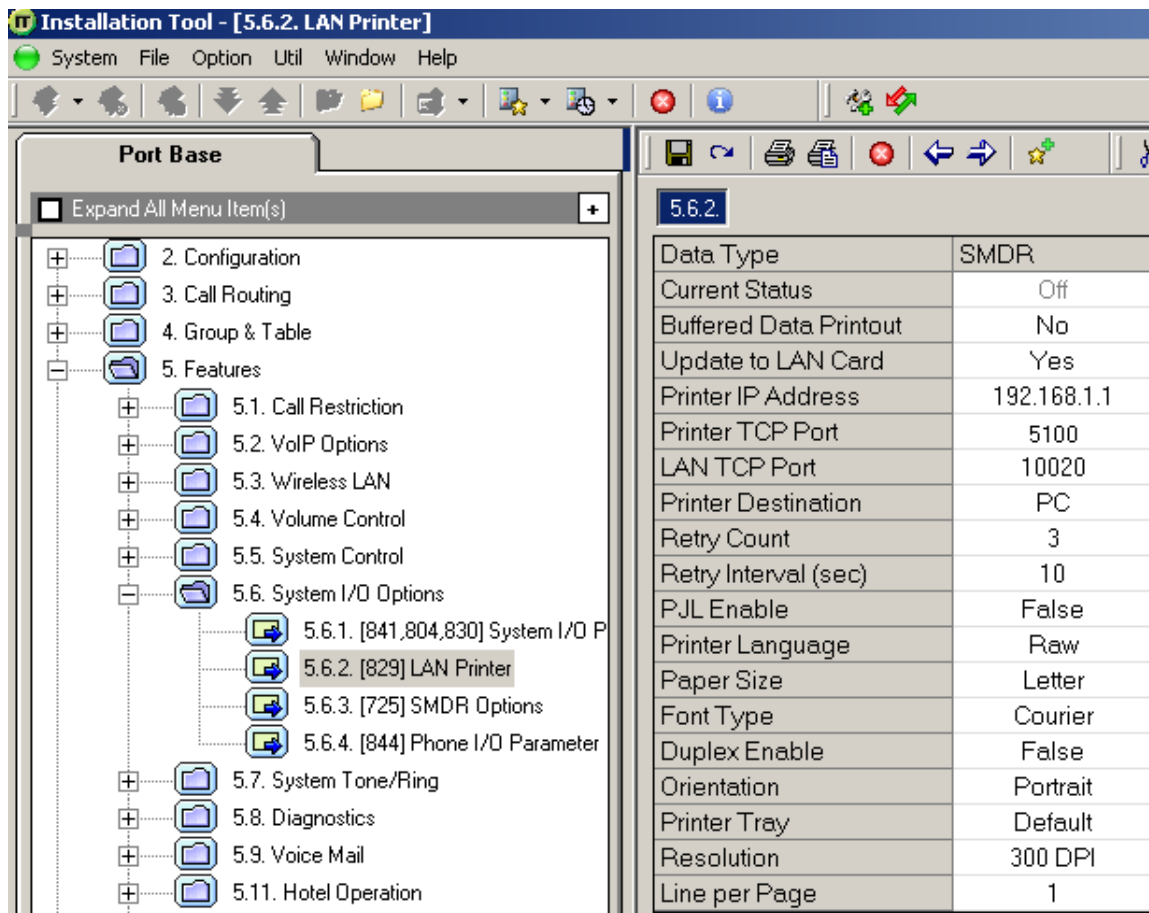
Required Tasks

- Configure the SMDR output
- Configure TIM Plus

Configuring your SMDR output

Follow the instructions below to configure your Samsung iDCS phone system to output SMDR data to TIM Plus.

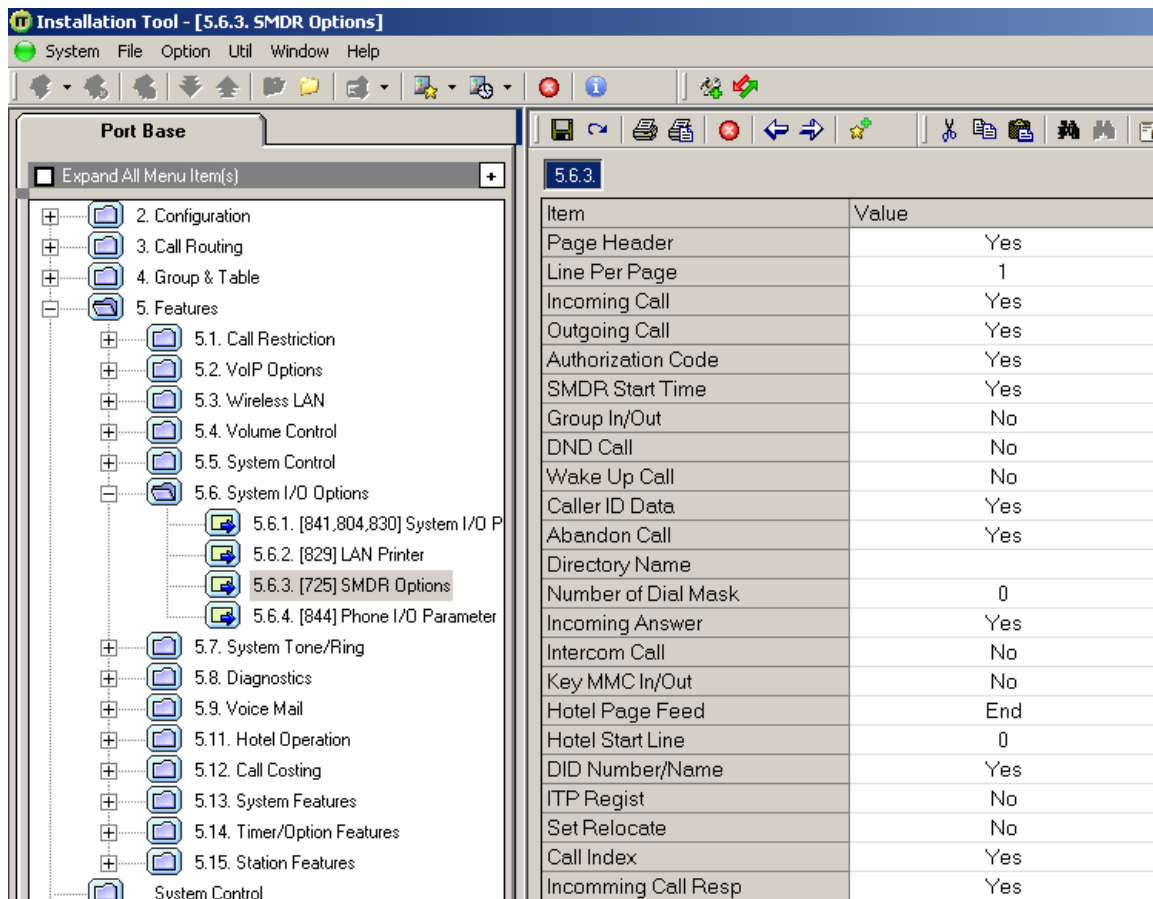
1. Log in to the Samsung Installation Tool software.
2. Click on the **5. Features** option from the left-hand menu.
3. Click on the **5.6 System I/O Options** tab and select **5.6.2. LAN Printer**.
4. In the **LAN Printer** options, configure the entries in the **SMDR** column, as shown below:



The screenshot shows the 'Installation Tool - [5.6.2. LAN Printer]' window. The left pane displays a tree view under 'Port Base' with '5.6.2. [829] LAN Printer' selected. The right pane shows a table of settings for the LAN Printer.

Data Type	SMDR
Current Status	Off
Buffered Data Printout	No
Update to LAN Card	Yes
Printer IP Address	192.168.1.1
Printer TCP Port	5100
LAN TCP Port	10020
Printer Destination	PC
Retry Count	3
Retry Interval (sec)	10
PJL Enable	False
Printer Language	Raw
Paper Size	Letter
Font Type	Courier
Duplex Enable	False
Orientation	Portrait
Printer Tray	Default
Resolution	300 DPI
Line per Page	1

5. Click on the **Save** icon to save the settings.
6. Click on the **5.6.3. SMDR Options** tab and configure the following settings:

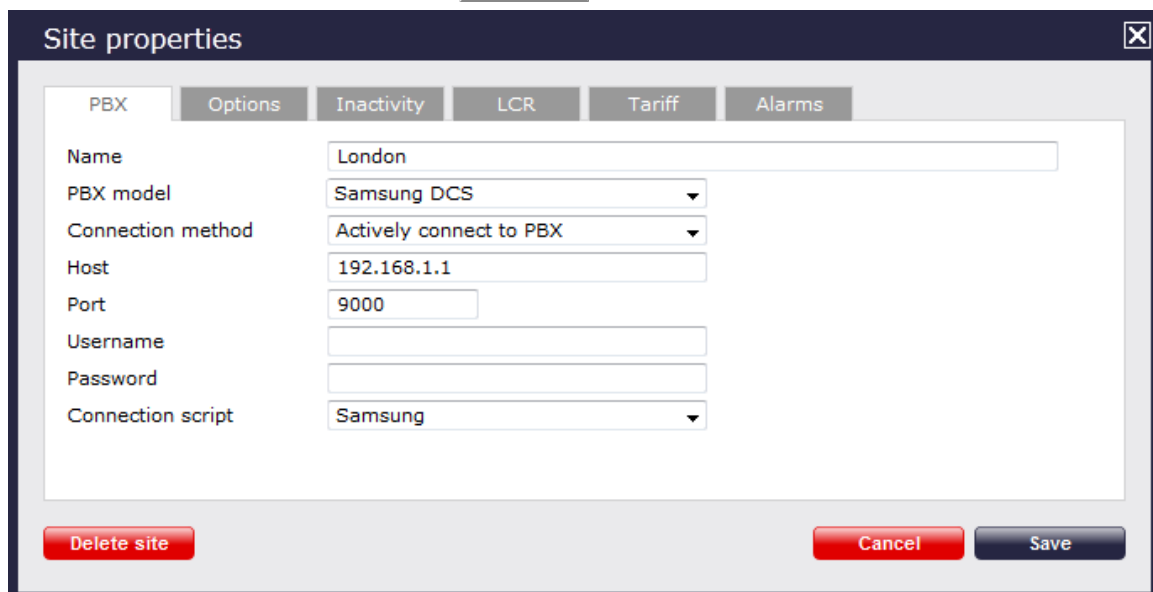


- Click on the **Save** icon at the top to save the settings.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect the SMDR data from your Samsung iDCS:

- Click on the **Directory** tab.
- Choose the site you want to configure and click **Properties**.

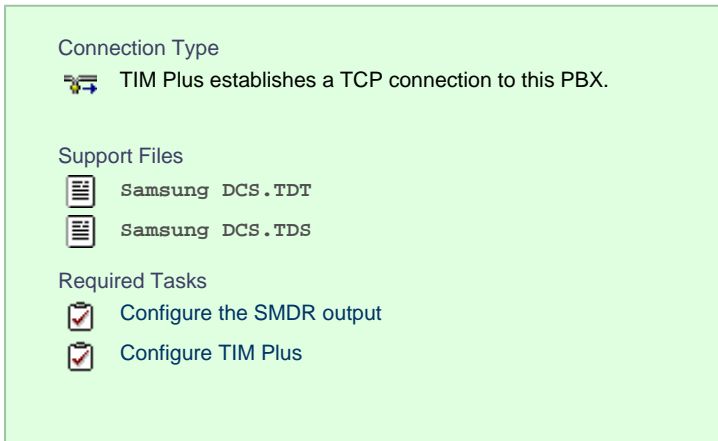


- In the **Site Properties** window, select **Samsung DCS** from the **PBX model** drop-down list.
- In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
- In the **Host** field, enter the IP address of your Samsung iDCS.

6. In the `Port` field, enter `9000`.
7. Leave the `Username` and `Password` fields blank.
8. In the `Connection script` field, select `samsung` from the drop-down list.
9. Click on the `Save` button to apply the settings.

Samsung OfficeServ

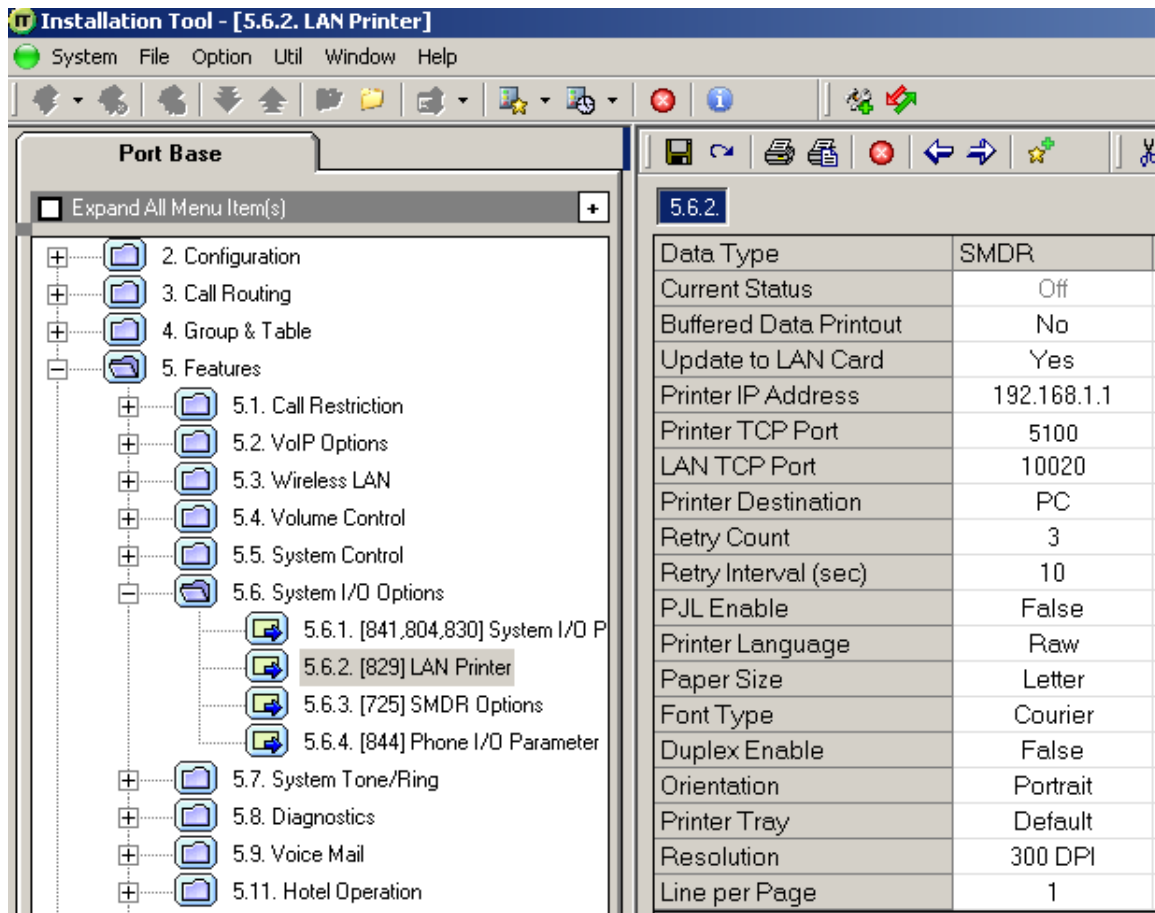
These instructions help you configure your Samsung OfficeServ phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



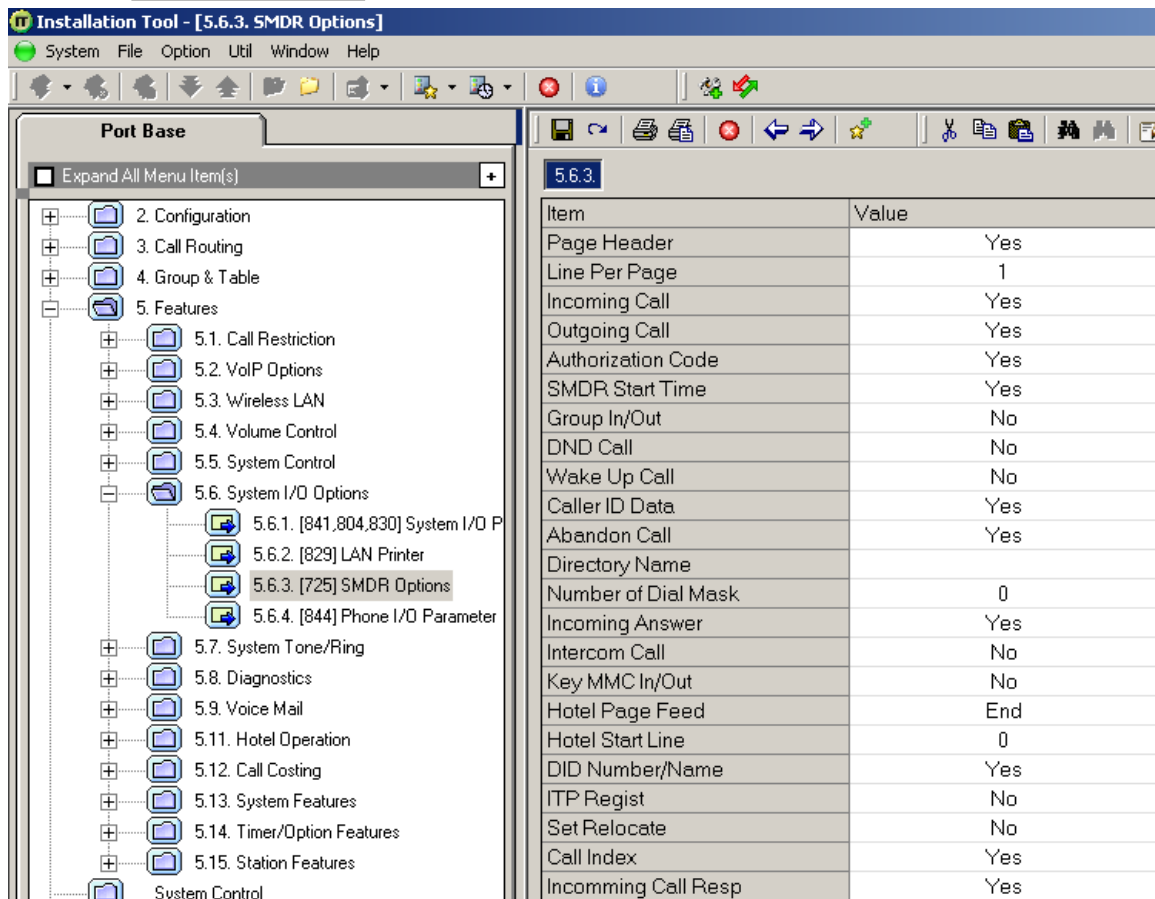
Configuring your SMDR output

Follow the instructions below to configure your Samsung OfficeServ phone system to output SMDR data to TIM Enterprise.

1. Log in to the Samsung Installation Tool software.
2. Click on the `5. Features` option from the left-hand menu.
3. Click on the `5.6 System I/O Options` tab and select `5.6.2. LAN Printer`.
4. In the `LAN Printer` options, configure the entries in the `SMDR` column, as shown in the screenshot below, modifying the value of the `Printer IP Address` field accordingly, in order to match the IP address of the computer running TIM Enterprise.



5. Click on the **Save** icon to save the settings.
6. Click on the **5.6.3. SMDR Options** tab and configure the following settings:

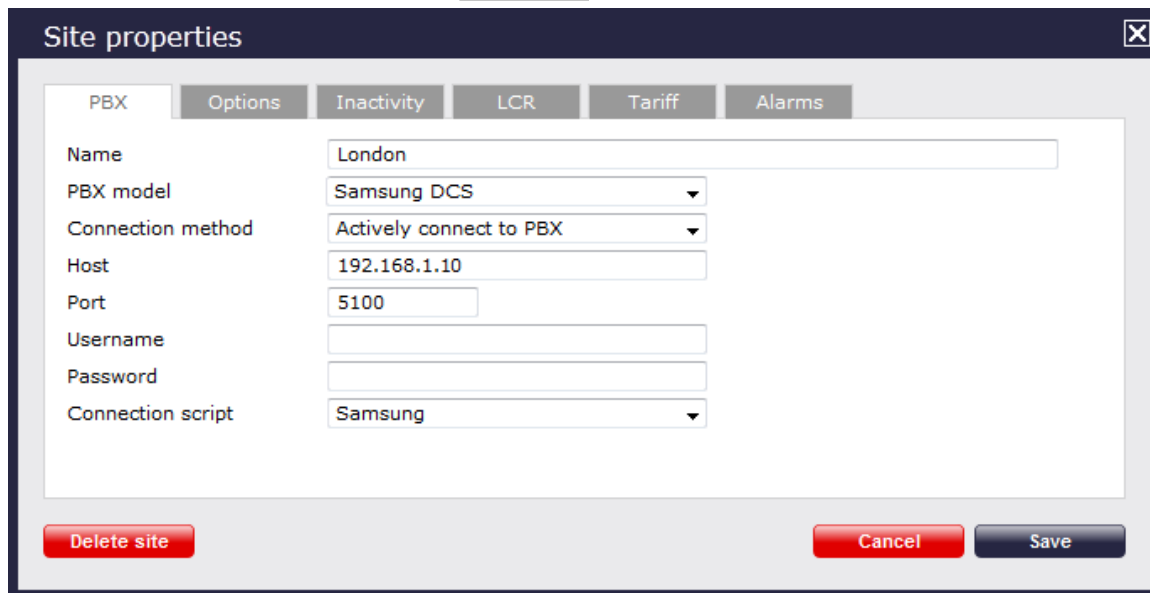


7. Click on the **Save** icon at the top to save the settings.

Configuring TIM Plus

Follow the instructions below to configure TIM Plus to collect the SMDR data from your Samsung OfficeServ:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



The screenshot shows a 'Site properties' dialog box with the following configuration:


Field	Value
Name	London
PBX model	Samsung DCS
Connection method	Actively connect to PBX
Host	192.168.1.10
Port	5100
Username	
Password	
Connection script	Samsung

3. In the **Site Properties** window, select **Samsung DCS** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
5. In the **Host** field, enter the IP address of your Samsung OfficeServ.
6. In the **Port** field, enter **5100**.
7. Leave the **Username** and **Password** fields blank.
8. In the **Connection script** field, select **Samsung** from the drop-down list.
9. Click on the **Save** button to apply the settings.




ShoreTel

ShoreTel PBX

These instructions help you configure your ShoreTel phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a DSN connection with this PBX.

Support Files

-  ShoreTel.TDT
-  ShoreTel.TDS
-  ShoreTel.DBS

Required Tasks

- Configure the SMDR output
- Set up a DSN connection
- Configure TIM Plus

Configuring your SMDR output

By default, the ShoreTel phone system writes its CDR data to a MySQL database called `ShoreWareCDR`. In order for TIM Plus to connect to the database and collect the call logging data, you need to create a username and password in the MySQL database on the ShoreWare Server. Contact your system maintainer if you are not familiar with this procedure.


The following information is required for TIM Plus to connect to the ShoreTel ShoreWareCDR database:

- IP address or hostname of the ShoreWare Server where the MySQL database resides.
- Username and Password of the `ShoreWareCDR` database.

Setting up a DSN connection

To enable TIM Plus to work with your ShoreTel phone system, you first need to set up a DSN connection by following the steps below:

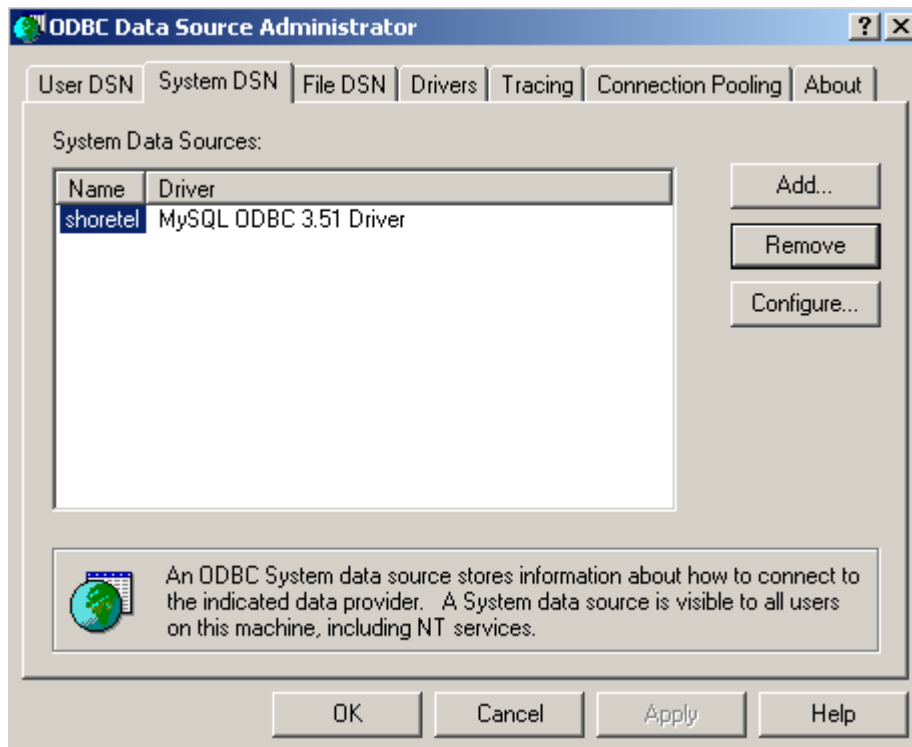
1. Open Windows Control Panel and select the **Administrative Tools** icon
2. Double-click on the **Data Sources (ODBC)** icon to open the ODBC Data Source Administrator window

 For a 64 bit system, access the ODBC Data Source Administrator from the following location `C:\Windows\sysWOW64\odbcad32.exe`

3. Click on the **System DSN** tab
4. Click on the **Add** button
5. Select **MySQL ODBC 3.51 Driver** from the driver list and click **Finish**. If you cannot see the **MySQL ODBC 3.51 Driver** option in the drop-down list, you can download it from <http://www.mysql.com>
6. In the **Name** field, enter `shoretel`
7. In the **Description** field, enter `TIM Plus link to ShoreTel`
8. In the **Server** field, enter the IP address or hostname of your ShoreWare Server
9. In the **Username** field, enter the username for your ShoreWareCDR database
10. In the **Password** field, enter the password for your ShoreWareCDR database
11. In the **Database** drop-down list, select `ShoreWareCDR`

12. Click on the **Test** button to confirm the information you entered is correct and that the connection is successful
13. Click on the **OK** button to close the window

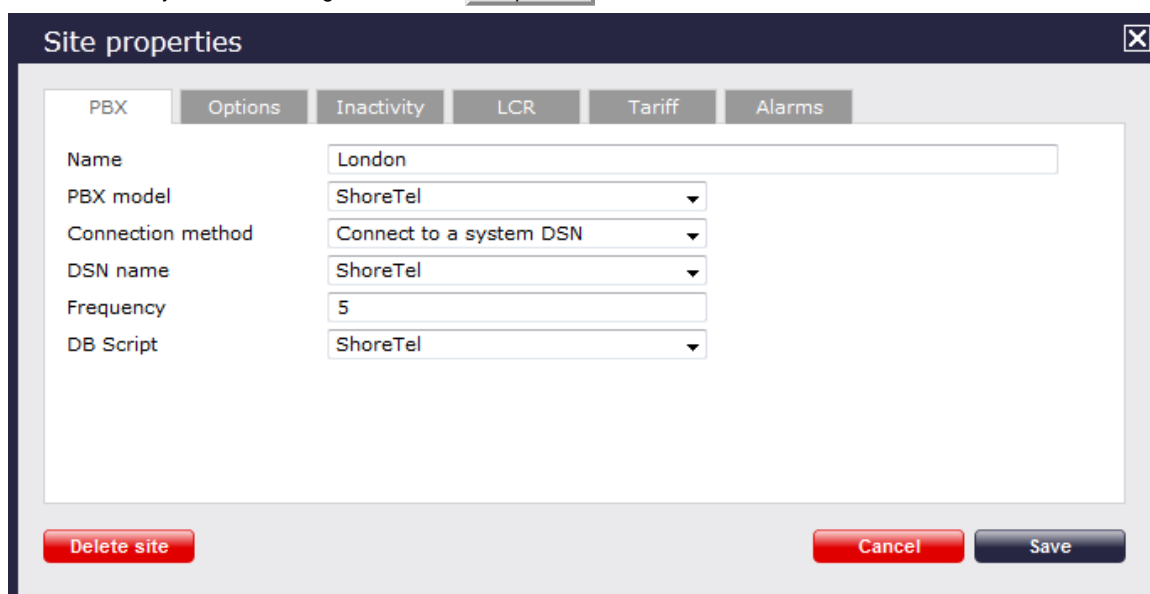
An example of an ODBC entry is shown below:



Configuring TIM Plus

Once the DSN connection has been set up, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



3. In the **Site Properties** window, select **ShoreTel** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Connect to a system DSN** from the drop-down list.

5. In the `DSN name` field, select `ShoreTel` from the drop-down list.
6. In the `Frequency` field, enter `5`.
7. In the `DB script` field, select `ShoreTel` from the drop-down list.
8. Click on the `Save` button to apply the settings.

Siemens


Siemens HiCom/HiPath

The Siemens HiCom/HiPath can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.


Siemens HiCom/HiPath - Serial connection


These instructions help you configure your Siemens HiCom/HiPath phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 `Siemens HiCom-HiPath.TDT`

 `Siemens.TDS`

Required Tasks

`Configure the SMDR output`

`Install NetPBX`

`Configure TIM Plus`

Configuring your SMDR output

When configuring your Siemens HiCom/HiPath phone system to send SMDR data via a serial connection, you need to directly connect a serial cable from the Siemens HiCom/HiPath phone system to the PC that `NetPBX` is installed and running on.

For more information about the output and configuration of your SMDR data, please contact your system maintainer.

Installing NetPBX

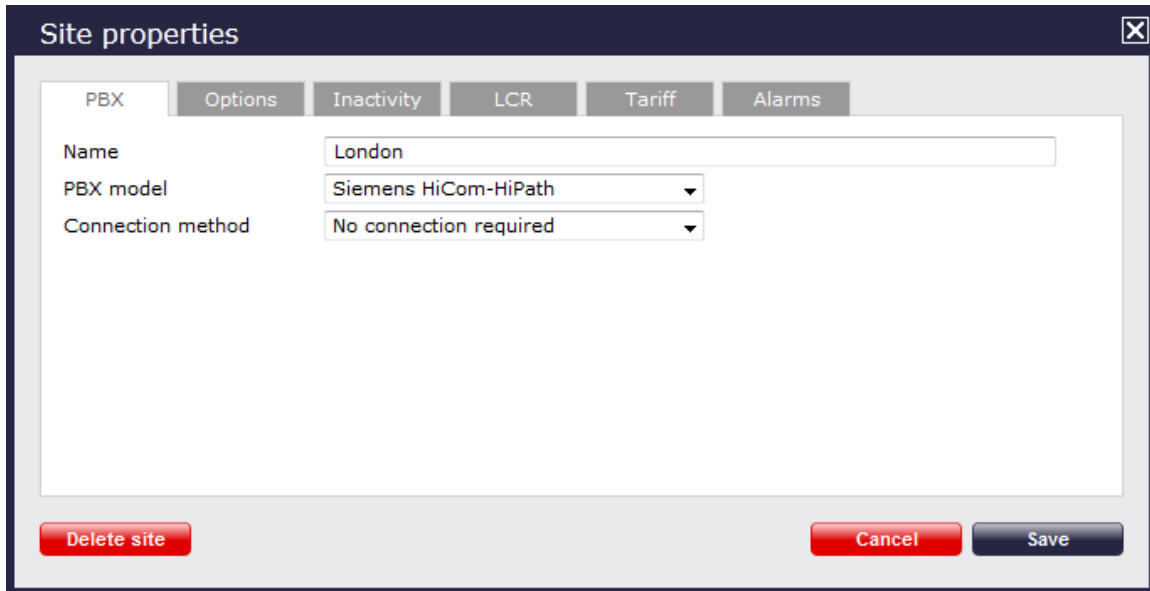
To collect call logging data from the serial port and send it to TIM Plus, you first need to install the `NetPBX` software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once `NetPBX` is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the `Directory` tab.
2. Choose the site you want to configure and click `Properties`.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Siemens HiCom-HiPath

Connection method: No connection required


Delete site Cancel Save

3. In the **Site Properties** window, select **Siemens HiCom-HiPath** from the **PBX model** drop-down list.
4. In the **Connection method** field select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.


Siemens HiCom/HiPath - IP connection


These instructions help you configure your Siemens HiCom/HiPath phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus listens for connections from this PBX.

Support Files

 Siemens HiCom-HiPath.TDT

 Siemens.TDS

Required Tasks

Configure the SMDR output

Configure TIM Plus

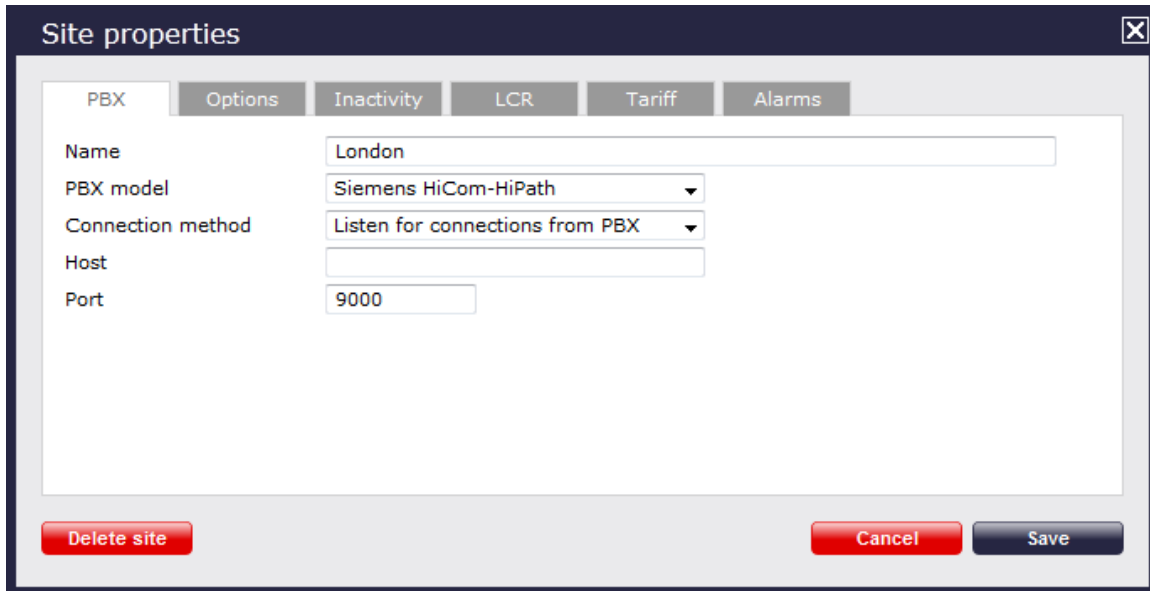
Configuring your SMDR output

By default, the SMDR output of a Siemens HiCom/HiPath phone system is not enabled. Contact your system maintainer to enable it for incoming, outgoing and internal calls.

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Siemens HiCom-HiPath

Connection method: Listen for connections from PBX

Host:

Port: 9000


Delete site Cancel Save

3. In the **Site Properties** window, select **Siemens HiCom-HiPath** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Listen for connections from PBX** from the drop-down list.
5. Leave the **Host** field blank.
6. In the **Port** field, enter **9000**.
7. Click on the **Save** button to apply the settings.




Siemens OpenOffice

These instructions help you configure your Siemens OpenOffice phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a DSN connection with this PBX.

Support Files

-  Siemens_OpenOffice.TDT
-  Siemens.TDS
-  Siemens.DBS

Required Tasks

- Configure the SMDR output
- Set up a DSN connection
- Configure the interface file
- Configure TIM Plus

Configuring your SMDR output

By default, the SMDR output of a Siemens OpenOffice is not enabled. Contact your system maintainer to enable it for incoming, outgoing and internal calls.

Setting up a DSN connection

To enable TIM Plus to work with the Siemens OpenOffice, you first need to set up a DSN connection, by following the steps below:

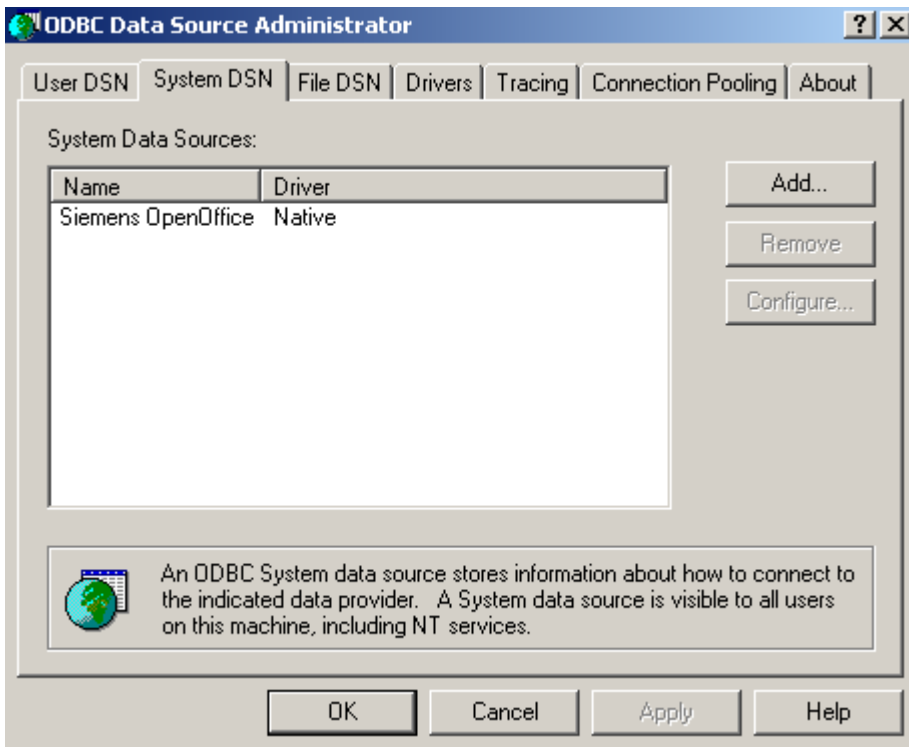
1. Open Windows Control Panel

2. Double-click on the **Administrative tools** icon
3. Double-click on the **Data Sources (ODBC)** icon to open the ODBC Data Source Administrator window

i For a 64 bit system, access the ODBC Data Source Administrator from the following location `C:\Windows\SysWOW64\odbcad32.exe`

4. Click on the **System DSN** tab
5. Click on the **Add** button
6. Select **Native** from the driver list and click **Finish**
7. In the **Data source name** field enter **Siemens OpenOffice**
8. Click on the **OK** button to save the changes

An example of an ODBC entry is shown below:



Configuring the interface file

Follow the steps below to configure the interface file to establish an HTTPS connection with your Siemens OpenOffice:

1. Open the `Siemens OpenOffice.TDT` file, located by default in `C:\Program Files (x86)\Tri-Line\TIM Plus\config`.
2. Edit the file to point to the IP address of your Siemens OpenOffice and enter the relevant username and password, as shown below.

```
'Siemens OpenOffice
'
' When using the https connection method, add the following to the main.cfg in the [Options] section
' GhostFile = data.pbx
' FileScoutInterval = 10

Type = SCRIPT

[Options]

ScriptFile = Siemens.tds

' Options, None, Https
ConnectionType = Https

' Options, Fixed Width, Delimited
FileFormat = Delimited

' Options, for Delimited File type
Delimiter = |

' Options, for Https Connection
IPAddress = 127.0.0.1
Username = user
Password = password

BackupFile = {app}\backup\{year}\{month}\backup-{year}{month}{day}.{sitecode}

' Access codes, comma delimited and sorted in descending length order
' default value is none
AccessCodes = 9

'SplitTandem = True
```

3. Remove the apostrophe (') in front of the amended fields to enable them. An example of a configured interface file is shown below:

```
'Siemens OpenOffice
'
' When using the https connection method, add the following to the main.cfg in the [Options] section
' GhostFile = data.pbx
' FileScoutInterval = 10

Type = SCRIPT

[Options]

ScriptFile = Siemens.tds

' Options, None, Https
ConnectionType = Https

' Options, Fixed Width, Delimited
FileFormat = Delimited

' Options, for Delimited File type
Delimiter = |

' Options, for Https Connection
IPAddress = 192.168.1.1
Username = Siemens
Password = OpenOffice

BackupFile = {app}\backup\{year}\{month}\backup-{year}{month}{day}.{sitecode}

' Access codes, comma delimited and sorted in descending length order
' default value is none
AccessCodes = 9

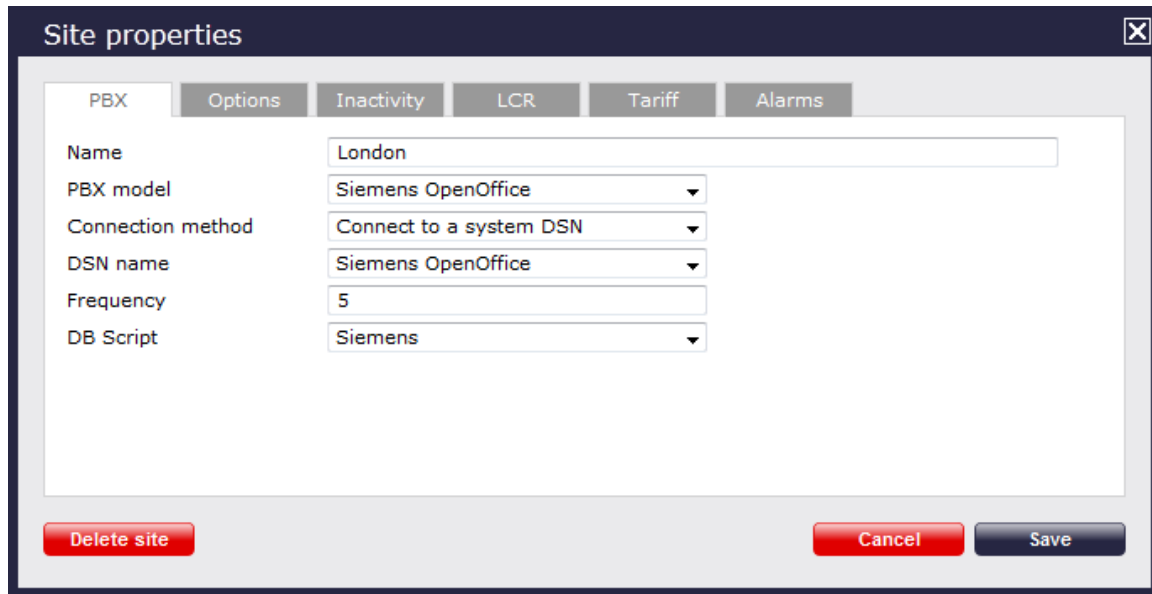
'SplitTandem = True
```

Configuring TIM Plus

Once the DSN connection has been set up, log in to TIM Plus and follow the steps below:

1. Click on the **Directory** tab.

- Choose the site you want to configure and click **Properties**.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: Siemens OpenOffice

Connection method: Connect to a system DSN

DSN name: Siemens OpenOffice

Frequency: 5

DB Script: Siemens


Delete site Cancel Save

- In the **Site Properties** window, select **Siemens OpenOffice** from the **PBX model** drop-down list.
- In the **Connection method** field, select **Connect to a system DSN** from the drop-down list.
- In the **DSN name** field, select **Siemens OpenOffice** from the drop-down list.
- In the **Frequency** field, enter **5**.
- In the **DB script** field, select **Siemens** from the drop-down list.
- Click on the **Save** button to apply the settings.


Siemens HiPath 4000


These instructions help you configure your Siemens HiPath 4000 phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

 Siemens HiPath 4000.TDT

 Siemens HiPath 4000.TDS

Required Tasks

Configure the SMDR output

Configure TIM Plus

Configuring your SMDR output

By default, the SMDR output of a Siemens HiPath 4000 is not enabled. To enable it for incoming, outgoing and internal calls, contact your system maintainer.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect the SMDR data from your Siemens HiPath 4000:

- Click on the **Directory** tab.

- Choose the site you want to configure and click **Properties** .

The screenshot shows a 'Site properties' dialog box with the following fields and values:

Field	Value
Name	London
PBX model	Siemens Hipath 4000
Connection method	Actively connect to PBX
Host	192.168.1.1
Port	9000
Username	
Password	
Connection script	Generic Simple

Buttons at the bottom: Delete site (red), Cancel (red), Save (blue).

- In the **Site Properties** window, select **Siemens HiPath 4000** from the **PBX model** drop-down list.
- In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
- In the **Host** field, enter the IP address of your Siemens HiPath 4000.
- In the **Port** field, enter **9000**.
- Leave the **Username** and **Password** fields blank.
- In the **Connection script** field, select **Generic Simple** from the drop-down list.
- Click on the **Save** button to apply the settings.


Siemens Realitis/HiPath DX

The Siemens Realitis/HiPath DX can be configured to send its CIL output via a serial (RS232) or an IP connection. Click on the link below that relates to your preferred connection method.


Siemens Realitis/HiPath DX - Serial connection


These instructions help you configure your Siemens Realitis/HiPath DX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 Siemens HiPath DX.TDT

 Siemens HiPath DX.TDS

Required Tasks

Configure the CIL output

Install NetPBX

Configure TIM Plus

Configuring your CIL output

When configuring your Siemens Realitis/HiPath DX to send its CIL information via a serial connection, you need to directly connect a serial

cable from the phone system's wall box to the PC running NetPBX .

Your system maintainer needs to enable CIL output by setting it to the **Full or unrestricted CIL** format.

Installing NetPBX

To collect call logging data from the serial port of your phone system and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties** .

The screenshot shows a 'Site properties' window with the following details:


- Tab:** PBX (selected)
- Name:** London
- PBX model:** Siemens HiPath DX
- Connection method:** No connection required
- Buttons:** Delete site, Cancel, Save

3. In the **Site Properties** window, select **Siemens HiPath DX** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to save the settings.



Siemens Realitis/HiPath DX - IP connection

These instructions help you configure your Siemens Realitis/HiPath DX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a TCP connection to this PBX.

Support Files

-  Siemens HiPath DX.TDT
-  Siemens HiPath DX.TDS

Required Tasks

- Configure the CIL output
- Configure TIM Plus

Configuring your CIL output

CIL access over Ethernet



In addition to CIL access over V.24 ports, all Realitis DX and iSDX systems with firmware revision 6.0 and above can send their CIL information by Ethernet. The System/UIP card - ACI - only allows a maximum of three such connections; subsequent connection requests are rejected.

To set up and activate this feature, a request must be made to Product Management at Siemens, Beeston.

Connecting to the CIL server

TIM Plus establishes a TCP connection to the IP address of the System/UIP card of your Siemens phone system.

You can choose the IP address of the System/UIP card by setting the variable `IPACT` in the permanent database. Your local maintenance engineer should be able to program this address for you.

The default listening port is 17257.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect SMDR data from your Siemens Realitis/HiPath DX:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.


The screenshot shows a 'Site properties' dialog box with the following configuration:

Field	Value
Name	London
PBX model	Siemens - HiPath DX
Connection method	Actively connect to PBX
Host	192.168.1.1
Port	17257
Username	
Password	
Connection script	Siemens Realitis DX



3. In the `Site Properties` window, select `Siemens HiPath DX` from the `PBX model` drop-down list.
4. In the `Connection method` field, select `Actively connect to PBX` from the drop-down list.
5. In the `Host` field, enter the IP address of the System/UIP card of your phone system.
6. In the `Port` field, enter 17257.
7. Leave the `Username` and `Password` fields blank.
8. In the `Connection script` field, select `Siemens Realitis DX` from the drop-down list.
9. Click on the **Save** button to apply the settings.

SpliceCom Maximiser

These instructions help you configure your SpliceCom Maximiser phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus establishes a TCP connection to this PBX.

Support Files


-  SpliceCom Maximiser.TDT
-  SpliceCom Maximiser.TDS

Required Tasks

- Configure the SMDR output
- Configure TIM Plus

Configuring the SMDR output

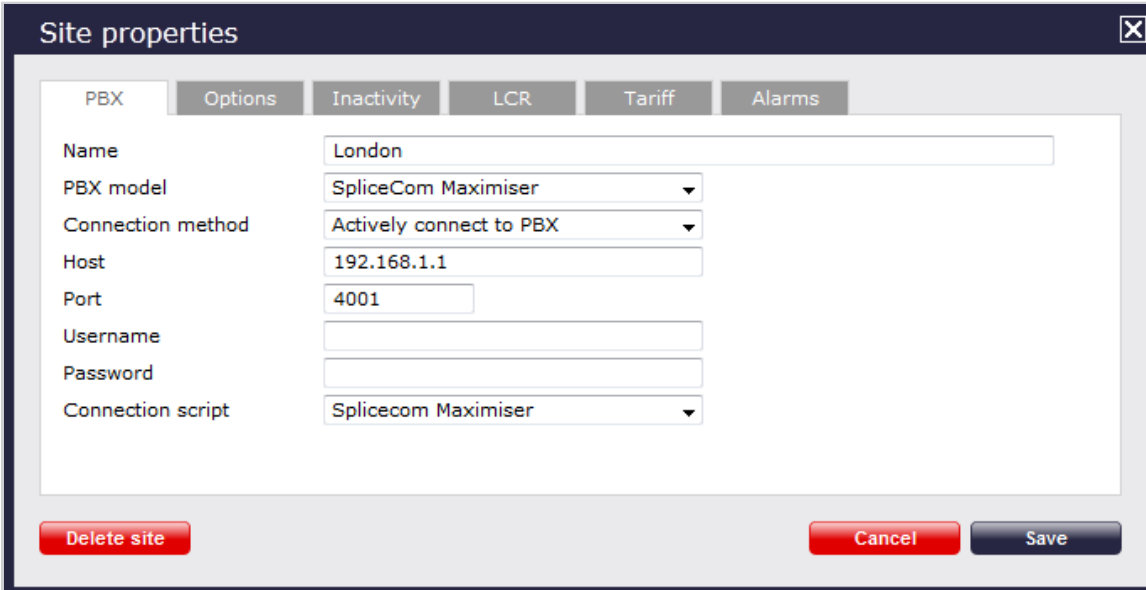
By default, the call logging output of the SpliceCom Maximiser is enabled and you do not normally require a password to obtain it. To protect your call logging data, you can set a **Call Logging Password** in the **System Details** screen of your Maximiser's web management interface. If you decide to set a password, you need to enter this when configuring TIM Plus (below).

 Your system maintainer may have already set a call logging password for you.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to collect call logging data from your SpliceCom Maximiser:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties ✕

PBX Options Inactivity LCR Tariff Alarms

Name

PBX model

Connection method

Host

Port

Username

Password

Connection script

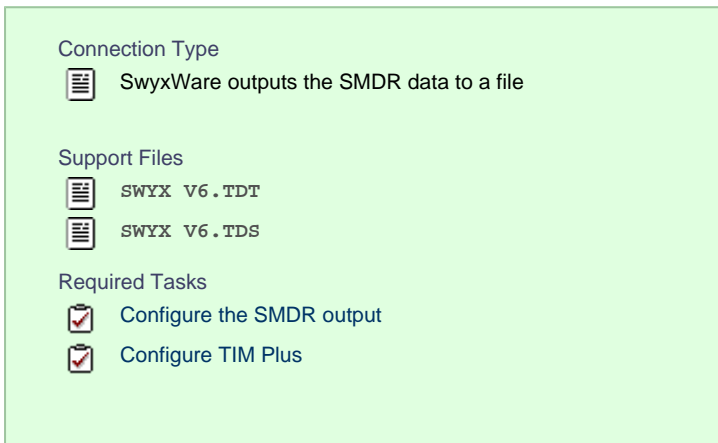
3. In the **Site Properties** window, select **SpliceCom Maximiser** from the **PBX model** drop-down list.

4. In the **Connection method** field, select **Actively connect to PBX** from the drop-down list.
5. In the **Host** field, enter the IP address of your SpliceCom Maximiser.
6. In the **Port** field, enter **4001**.
7. Leave the **Username** field blank.
8. If your Maximiser has a **call logging password** set, enter it in the **Password** field; if not, leave it blank.
9. In the **Connection script** field, select **SpliceCom Maximiser** from the drop-down list.
10. Click on the **Save** button to apply the changes.

Swyx

SwyxWare

These instructions help you configure your SwyxWare phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

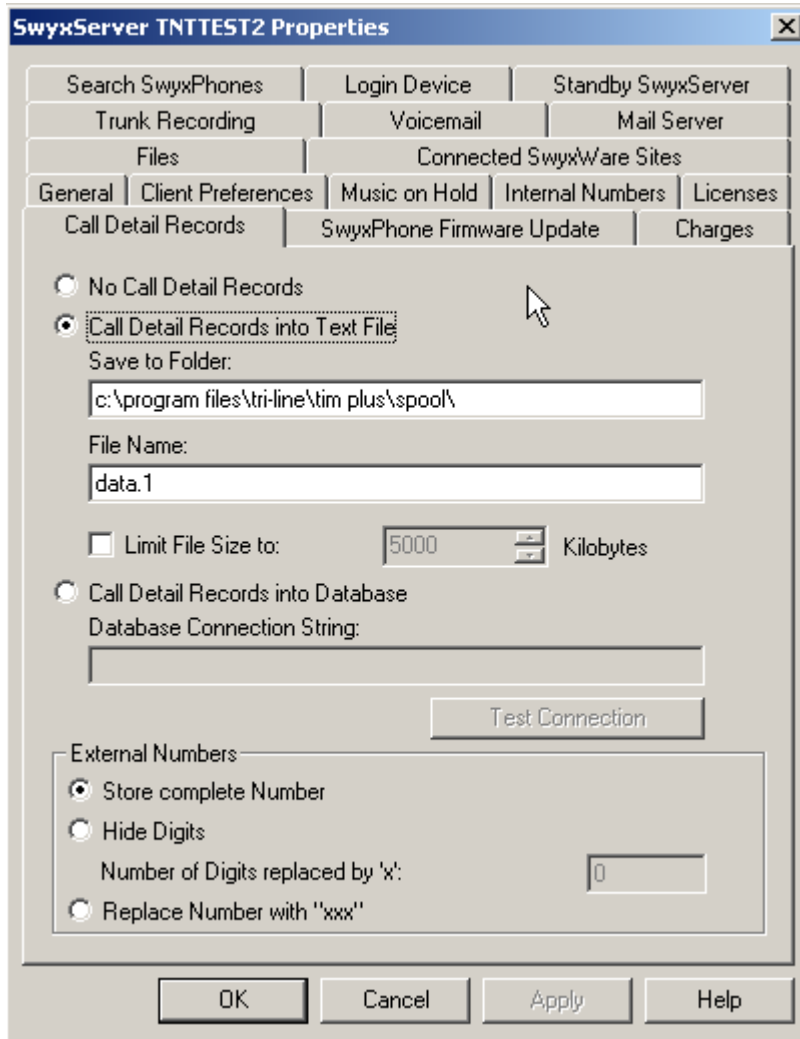


Configuring your SMDR output

Follow the steps below to configure the SwyxWare to output SMDR data to a file in a specific location:

1. Log in to your SwyxWare Administration Tool.
2. Right-click on the Swyx server you want to configure and click on the **Properties** button.
3. In the **Properties** window, click on the **Call Detail Records** tab.
4. Click on the **Call Detail Records into Text File** radio button.
5. In the **Save to Folder** field, enter `\program files\tri-line\tim plus\spool\`. If you are using a mapped drive enter the driver letter.
6. In the **File Name** field, enter `data.{sitecode}`, replacing `{sitecode}` with the ID of the site you are logging. To obtain the ID of a site, hover the mouse pointer over it on the **Directory** page in TIM Plus and it will be displayed as a tooltip.
7. Click on the **OK** button and close the SwyxWare Administration Tool.

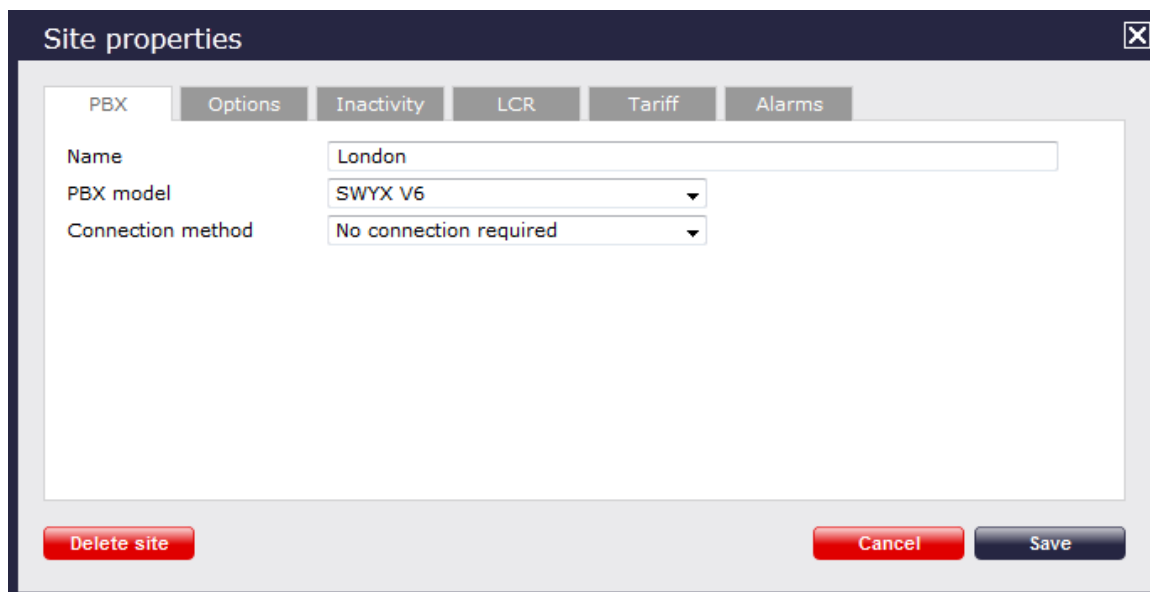
Here is an example of the SwyxWare Administration properties window:



Configuring TIM Plus

Follow the steps below to configure TIM Plus to receive SMDR data from your SwyxWare:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

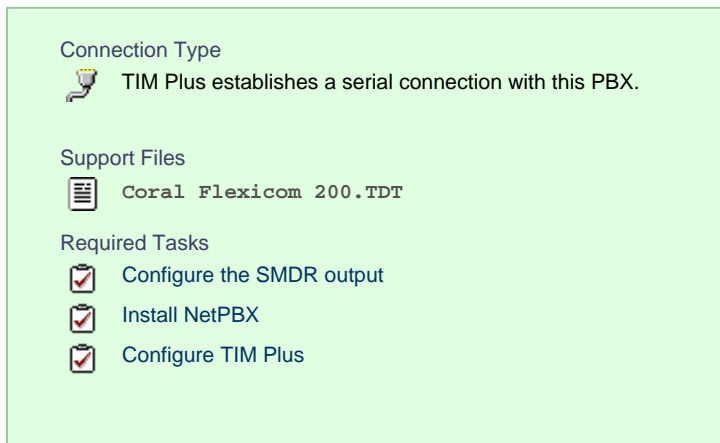


3. In the `Site Properties` window, select `SWYX V6` from the `PBX model` drop-down list.
4. In the `Connection method` field, select `No connection required` from the drop-down list.
5. Click on the `Save` button to apply the settings.

Tadiran

Coral Flexicom

These instructions help you configure your Coral Flexicom phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Configuring your SMDR output

The Coral Flexicom phone system sends its SMDR data via a serial connection. You need to directly connect a serial cable from the phone system to the PC that `NetPBX` is installed and running on.

For more information about the output and configuration of your SMDR data, contact your system maintainer.

Installing NetPBX

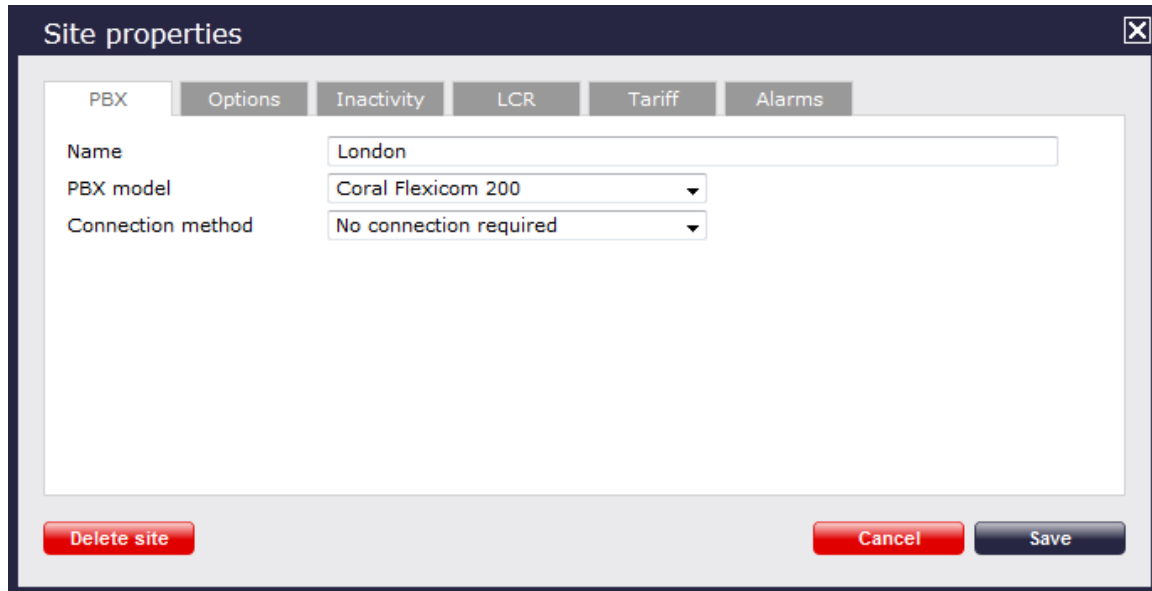
To collect call logging data from the serial port and send it to TIM Plus, you need to install the `NetPBX` software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once `NetPBX` is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the `Directory` tab.
2. Choose the site you want to configure and click `Properties`.



Site properties

Options: PBX, Options, Inactivity, LCR, Tariff, Alarms

Name: London

PBX model: Coral Flexicom 200

Connection method: No connection required

Buttons: Delete site, Cancel, Save

3. In the **Site Properties** window, select **Coral Flexicom 200** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Toshiba


Toshiba CIX/CTX

The Toshiba CIX/CTX can be configured to send its SMDR data over a serial (RS232) or an IP connection. Click on one of the links below that relates to your preferred connection method.


Toshiba CIX/CTX - Serial connection


These instructions help you configure your Toshiba CIX/CTX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type

 TIM Plus establishes a serial connection with this PBX.

Support Files

 Toshiba CIX-CTX.TDT

 Toshiba CIX-CTX.TDS

Required Tasks

Configure the SMDR output

Install NetPBX

Configure TIM Plus

Configuring your SMDR output

When configuring your Toshiba CIX/CTX phone system to output its SMDR data via a serial connection, you need to directly connect a serial cable from the phone system to the PC running **NetPBX**.

For more information about the output and configuration of your SMDR data, contact your system maintainer.

Installing NetPBX

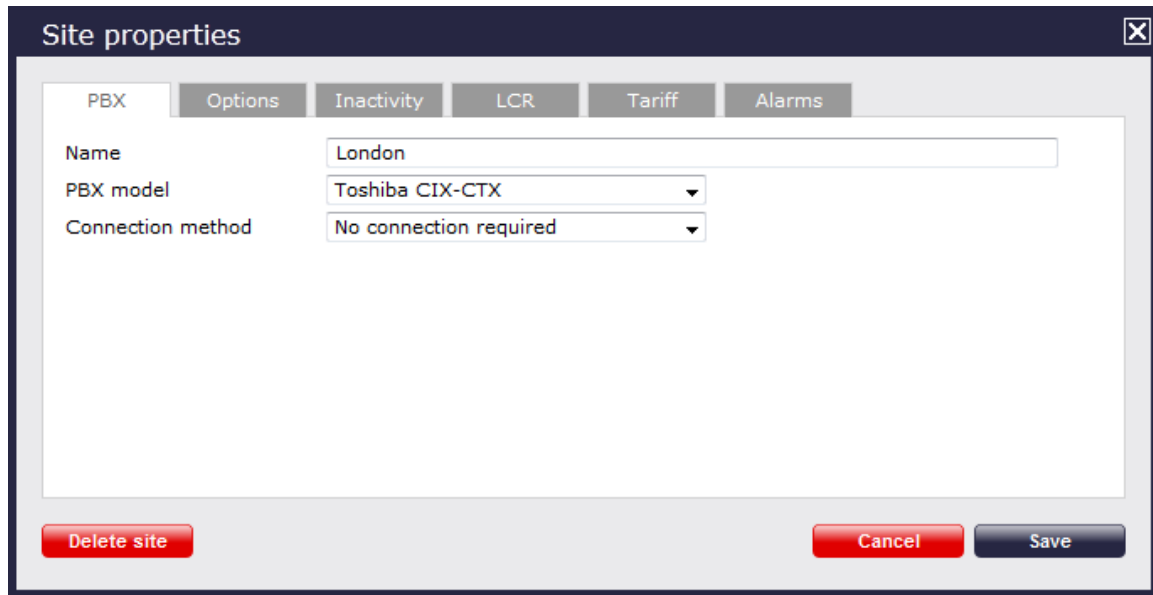
To collect call logging data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.




The screenshot shows a 'Site properties' dialog box with the following details:



- Title:** Site properties
- Tabs:** PBX, Options, Inactivity, LCR, Tariff, Alarms
- Name:** London
- PBX model:** Toshiba CIX-CTX
- Connection method:** No connection required
- Buttons:** Delete site, Cancel, Save

3. In the **Site Properties** window, select **Toshiba CIX-CTX** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Toshiba CIX/CTX - IP Connection

These instructions help you configure your Toshiba CIX/CTX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.

Connection Type
 TIM Plus listens for connections from this PBX.

Support Files
 Toshiba CIX-CTX.TDT
 Toshiba CIX-CTX.TDS

Required Tasks
 Configure the SMDR output
 Configure TIM Plus

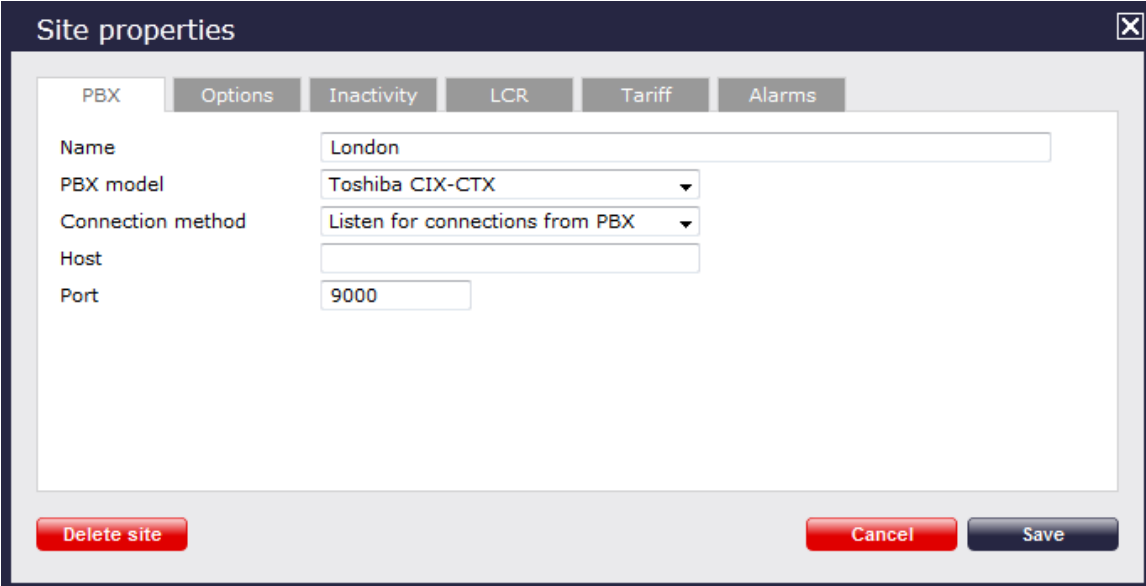
Configuring your SMDR output

By default, the SMDR output of your Toshiba CIX/CTX is not enabled. Contact your system maintainer to enable call logging output for incoming, outgoing and internal calls.

Configuring TIM Plus

Follow the steps below to configure TIM Plus to listen for SMDR data from your Toshiba CIX/CTX:

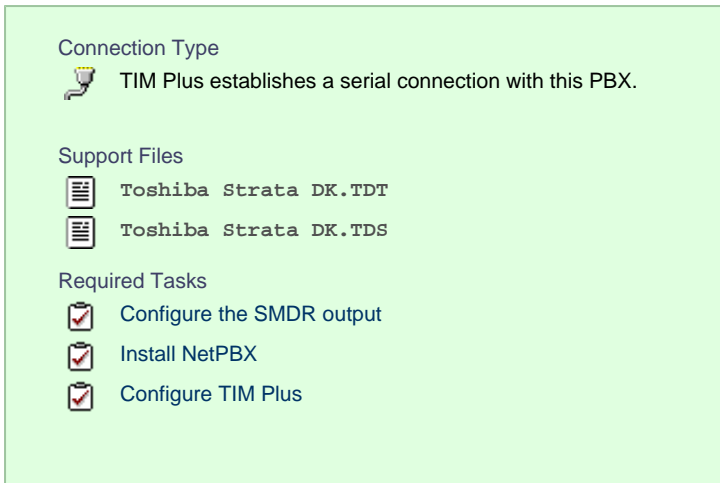
1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



3. In the **Site Properties** window, select **Toshiba CIX-CTX** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **Listen for connections from PBX** from the drop-down list.
5. Leave the **Host** field blank.
6. In the **Port** field enter **9000**.
7. Click on the **Save** button to apply the settings.

Toshiba Strata DK

These instructions help you configure your Toshiba Strata DK phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Configuring your SMDR output

The Toshiba Strata DK phone system sends SMDR information via a serial connection when it is fitted with a Small Options Card. You need to directly connect a serial cable from the phone system to the PC that NetPBX is installed and running on.

For more information about the output and configuration of your SMDR data, contact your system maintainer.

Installing NetPBX

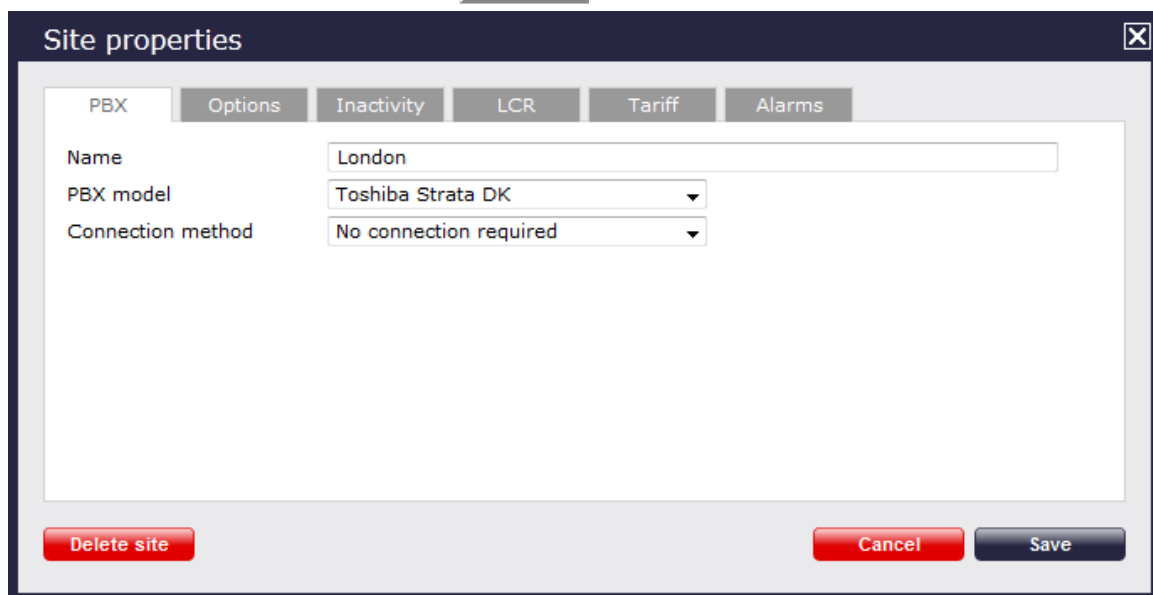
To collect call logging data from the serial port and send it to TIM Plus, you first need to install the NetPBX software. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.

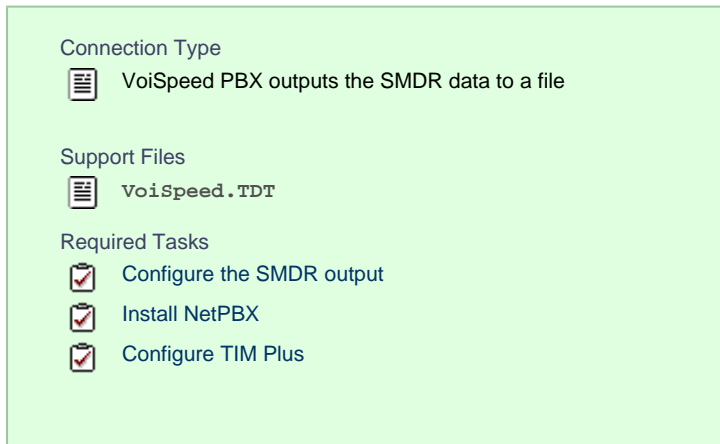


3. In the Site Properties window, select **Toshiba Strata DK** from the PBX model drop-down list.
4. In the Connection method field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

VoiSpeed

VoiSpeed PBX

These instructions help you configure your VoiSpeed PBX phone system to work with TIM Plus. Contact your system maintainer if you are not familiar with the configuration of your PBX.



Connection Type

- VoiSpeed PBX outputs the SMDR data to a file

Support Files

- VoiSpeed.TDT

Required Tasks

- Configure the SMDR output
- Install NetPBX
- Configure TIM Plus

Configuring your CDR output

The VoiSpeed phone system outputs its CDR data to a file. To configure the output, contact your system maintainer.

TIM Plus can be installed on the same machine as the VoiSpeed server; however, you should confirm this first with your system maintainer as it may impact system performance.

Installing NetPBX

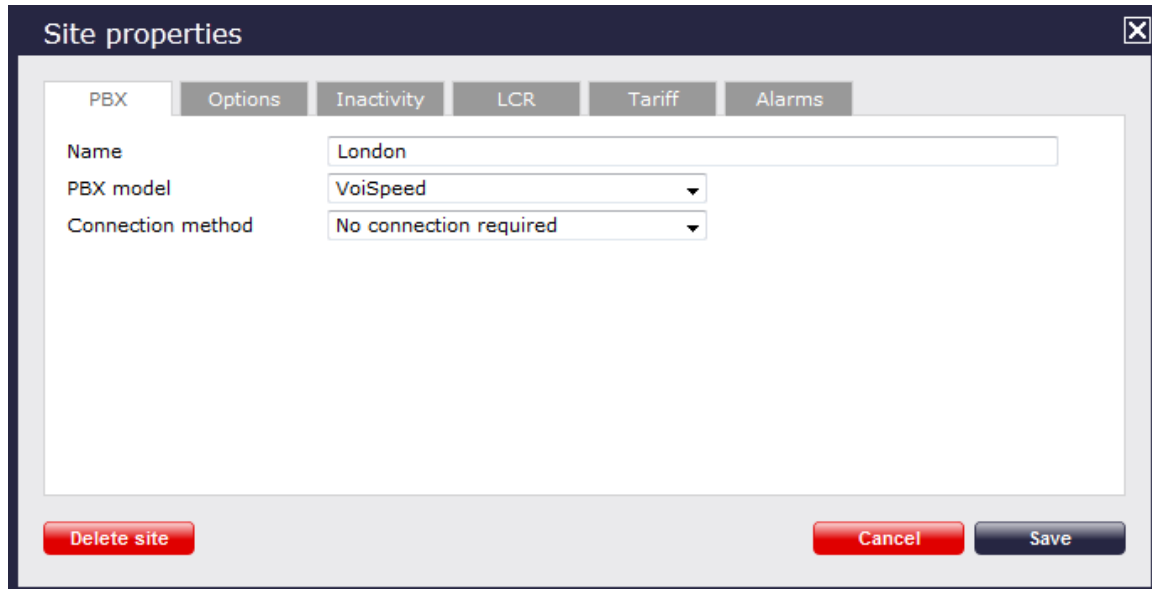
Since your VoiSpeed phone system outputs its call logging data to a file, you first need to install the [NetPBX](#) software in order to collect the contents of the call logging file and forward it to TIM Plus. For setup instructions, click on the link below:

[Install and configure NetPBX](#)

Configuring TIM Plus

Once NetPBX is configured and collecting data, log in to TIM Plus and perform the steps below:

1. Click on the **Directory** tab.
2. Choose the site you want to configure and click **Properties**.



Site properties

PBX Options Inactivity LCR Tariff Alarms

Name: London

PBX model: VoiSpeed

Connection method: No connection required

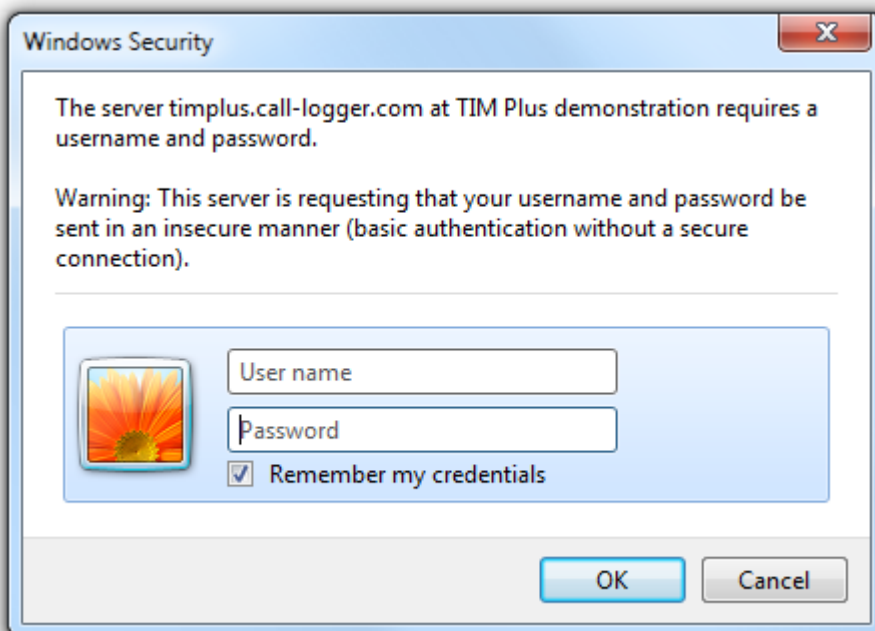
Delete site Cancel Save

3. In the **Site Properties** window, select **VoiSpeed** from the **PBX model** drop-down list.
4. In the **Connection method** field, select **No connection required** from the drop-down list.
5. Click on the **Save** button to apply the settings.

Accessing the system

TIM Plus resides on a centralised machine within your network where it runs as a service and, due to its in-built web server, it can be accessed via a standard web browser from any other PC on your network.

To access TIM Plus, open a web browser, go to the IP address or host name of the computer running TIM Plus and log in using your username and password.



Windows Security

The server `timplus.call-logger.com` at TIM Plus demonstration requires a username and password.

Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).

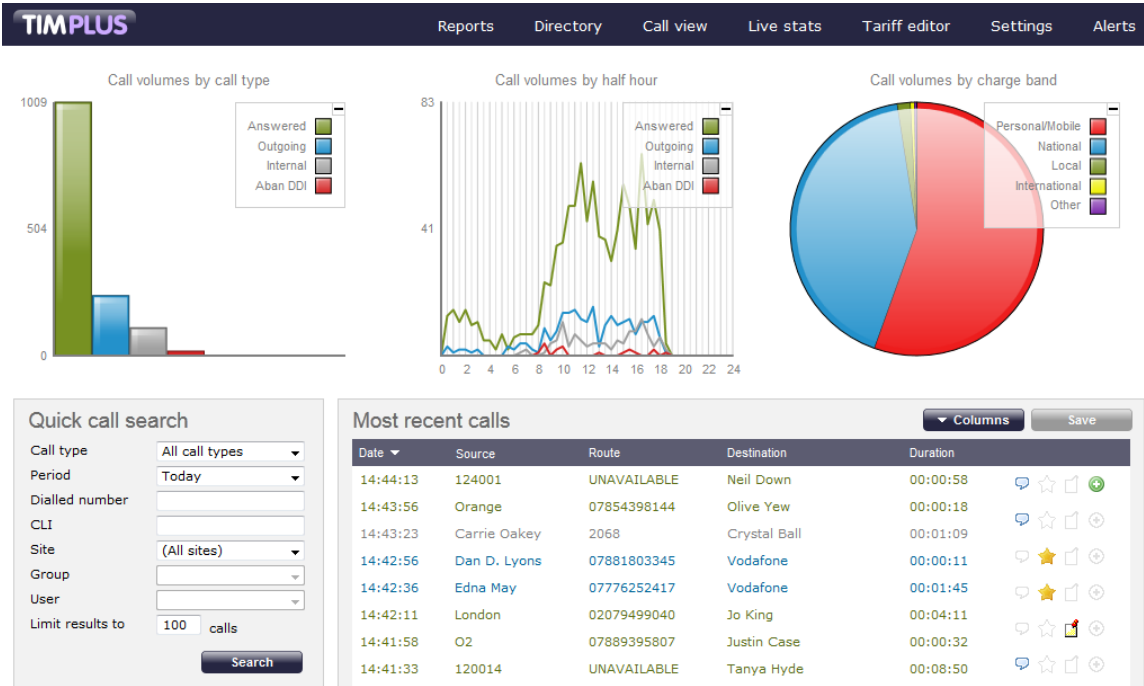
User name

Password

Remember my credentials

OK Cancel

After successfully logging in, the following "dashboard" screen will be displayed.



i You may find that your access is restricted to a specific site or group. If you need to access other sites or groups, speak to your system administrator to get additional privileges.

Main screen

Overview

When logging in to TIM Plus, the following dashboard screen is displayed:





The information you see on this screen is relevant only to the area to which you've been granted access. For example:

- If you are a site administrator, the graphs, live call view and any other call-related information will be derived from calls that happened only on your own site and not those from any other sites within the system.
- If your login account is restricted to a specific user group (department), the statistics will relate only to the call information for users within that particular group.

The dashboard screen consists of a toolbar along the top of the page and three main panels.

The toolbar is the main menu that you use to navigate the major features of TIM Plus. The tabs that make up the toolbar differ according to the type of account you use to log in with. The screenshot above displays an example dashboard screen for a user account that has administrative privileges whereby all of the tabs are present; however, for a restricted web user account, some of the tabs might not be visible, such as **Directory** or **Settings**.

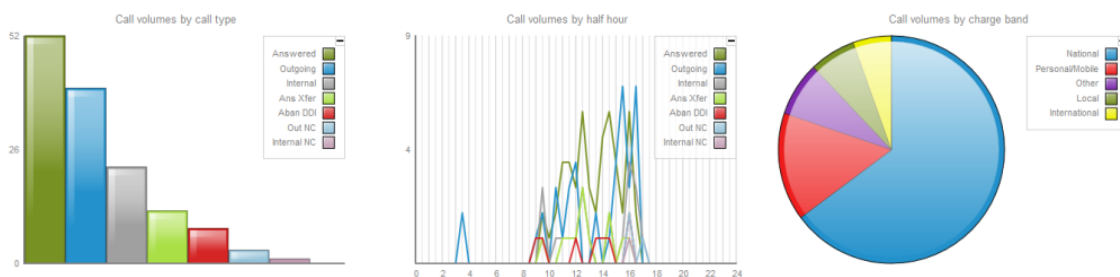
The three panels that make up the dashboard screen are as follows:

- Summary graphs
- Quick call search
- Most recent calls

Summary graphs

The summary graphs panel consists of three separate graphs, each organising their information using different criteria, as described below:

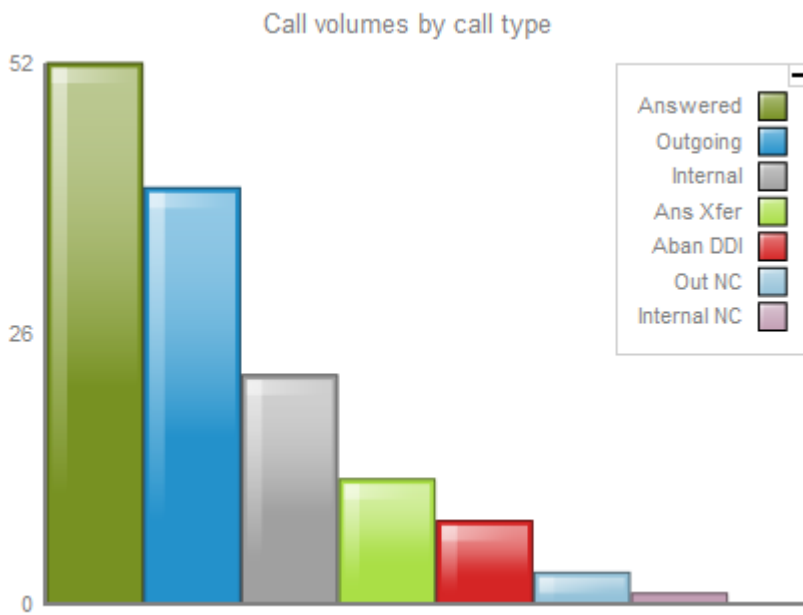
- Call volumes by call type
- Call volumes by half hour
- Call volumes by charge band



The information you see in each graph pertains only to the area to which the logged-in user has been granted access.


Call volume by call type

This first graph shows a snapshot of calls for the current day, based on the type of call, e.g. inbound, outbound, missed.



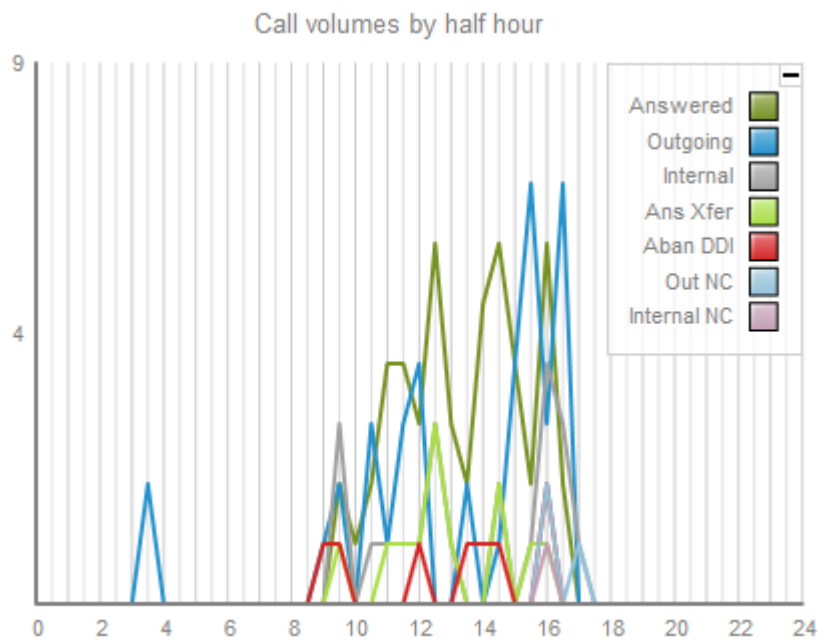
Each call type is colour-coded using a system-wide colour scheme, as follows:

- **Green:** Incoming calls
- **Light green:** Answered transferred calls
- **Blue:** Outgoing calls
- **Light blue:** Outgoing non-connected calls
- **Grey:** Internal calls
- **Mauve:** Internal non-connected calls
- **Red:** Abandoned DDI (Direct Dialed In) calls
- **Pink:** Tandem calls

 The same call type colour coding system applies throughout TIM Plus.

Call volume by half hour

This graph shows a snapshot of calls for the current day, broken down by half-hour, allowing you to quickly identify peaks and troughs in call volumes to identify busy periods.



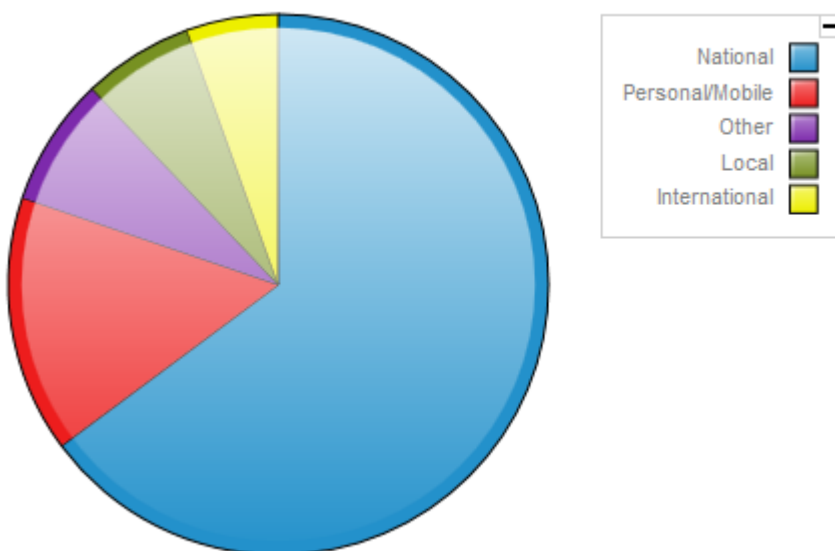
Each call type is colour-coded using a system-wide colour scheme as follows:

- **Green:** Incoming calls
- **Light green:** Answered transferred calls
- **Blue:** Outgoing calls
- **Light blue:** Outgoing non-connected calls
- **Grey:** Internal calls
- **Mauve:** Internal non-connected calls
- **Red:** Abandoned DDI (Direct Dialed In) calls
- **Pink:** Tandem calls

Call volume by charge band

This graph shows a snapshot of calls for the current day, based on their destination, allowing you to identify where you call most often. Calls are grouped into geographical locations such as *Mobile, National, Local, International* etc.

Call volumes by charge band



By default, the following colour scheme is used to identify calls to each geographical group:

- **Red:** Personal/Mobile calls
- **Green:** Local calls
- **Blue:** National calls
- **Yellow:** International calls
- **Purple:** Other calls

Quick call search

The `quick call search` panel offers a rapid way to locate specific calls in the central database, as an alternative to running a full call report. You can refine your search results by using the filters described below:

Quick call search

Call type:

Period:

Dialled number:

CLI:

Site:

Group:

User:

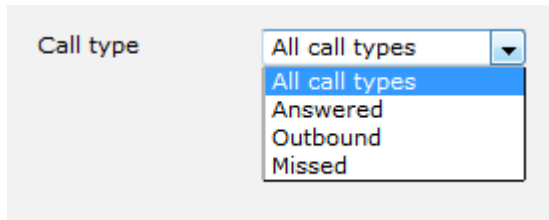
Limit results to: calls

Most recent calls

Time	Source	Route	Destination	Duration

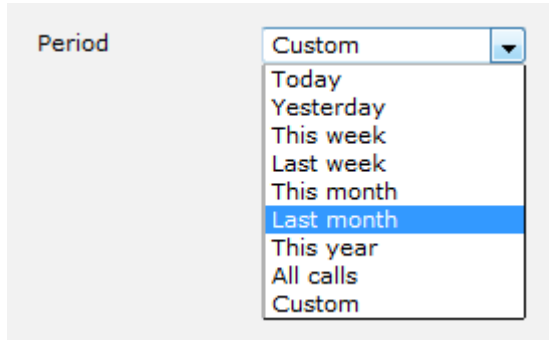
Call type

This filter allows you to define the type of call you want your search results to cover, e.g. incoming, outgoing, internal etc. To include all types of call, set this to `All call types`.



Period

The **Period** search field defines the time period the results should cover. To choose a period, select it from the drop-down list.



There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Field	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day (normally Monday) of the current week. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.

All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.
Custom	Enter the start and end dates and times into the boxes provided. The start and end times are linked to their respective dates.

Dialled number

The **Dialled number** field allows you to filter your results by the number that was dialled. You can also specify a partial number to match all calls beginning with that number, e.g. to show all calls to London, enter **0207**.

Dialled number

You can use the * symbol as a wildcard in digit pattern matching, e.g. for calls to Tri-Line, enter **020726526***.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can filter your results to show only calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from London, you could enter **0207**.

CLI

You can use the * symbol as a wildcard in digit pattern matching, e.g. for calls from Tri-Line, enter **020726526***.

Site

The **site** search field enables you to specify the site you want your results to cover. Select **(All sites)** to search across all sites.

Site

- (All sites)
- London
- Madrid
- Manchester
- Newcastle

Group

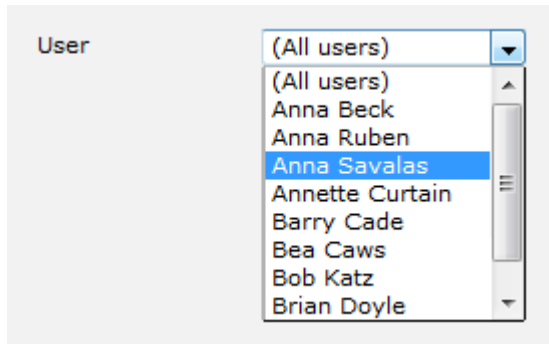
Having chosen a specific site, you can limit the search results to a specific user group within that site by selecting it from the drop-down list.

Group

- (All groups)
- ~~User groups~~
- Accounts
- Accounts Admin
- Administrators
- Billing Team
- Call centre
- Credit Card Machines
- Development

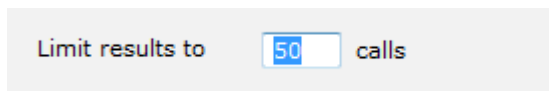
User

If both a site and group have been selected, you can further limit the search results to include only calls involving a particular user, by selecting the user from the drop-down list.



Limit results to

This feature enables you to specify the maximum number of search results you want to retrieve. Set the limit by entering a value in the field provided, e.g. entering 50 in the `Limit results to` field, will return a maximum of 50 results.



The search results will show in a new panel entitled `Search results`, as shown below:































Search results:					Back to recent calls
Time	Source	Route	Destination	Duration	
10:17:53	London	02074372526	Rose Pink	00:01:36	
10:16:31	Rachel Vaughn	3388	Justin Case	00:00:30	
10:16:18	London	02076382847	AJ Singh	00:00:50	
10:16:08	London	02076788000	Shane Winrey	00:02:22	
10:15:06	London	02089443192	11042	00:00:35	
10:14:58	London	02089173800	Cliff Jones	00:00:03	
10:14:53	Chastity Case	02078239990	London	00:00:45	
10:14:51	120021	UNAVAILABLE	Wayne Robert	00:02:43	
10:14:38	Orange	07854369212	Pearl E White	00:00:12	
10:14:36	120031	UNAVAILABLE	Rose Pink	00:01:35	
10:14:23	Orange	07854180526	Sarah Connors	00:00:11	
10:12:01	Orson Carte	07751390118	O2	00:00:25	

To close the search results and return to the `Most recent calls` panel, click on the [Back to recent calls](#) link, at the top-right corner of the panel.

Most recent calls


By default, the `Most recent calls` panel displays the latest calls to have been processed by TIM Plus, with the most recent towards the top of the list. To sort the results by a different column, click on the relevant column header.

Search results: [Back to recent calls](#)

Time	Source	Route	Destination	Duration	
10:17:53	London	02074372526	Rose Pink	00:01:36	   
10:16:31	Rachel Vaughn	3388	Justin Case	00:00:30	   
10:16:18	London	02076382847	AJ Singh	00:00:50	   
10:16:08	London	02076788000	Shane Winrey	00:02:22	   
10:15:06	London	02089443192	11042	00:00:35	   
10:14:58	London	02089173800	Cliff Jones	00:00:03	   
10:14:53	Chastity Case	02078239990	London	00:00:45	   
10:14:51	120021	UNAVAILABLE	Wayne Robert	00:02:43	   
10:14:38	Orange	07854369212	Pearl E White	00:00:12	   
10:14:36	120031	UNAVAILABLE	Rose Pink	00:01:35	   
10:14:23	Orange	07854180526	Sarah Connors	00:00:11	   
10:12:01	Orson Carte	07751390118	O2	00:00:25	   

Each call type is colour-coded using a system-wide colour scheme, as follows:

- **Green:** Incoming calls
- **Light green:** Answered transferred calls
- **Blue:** Outgoing calls
- **Light blue:** Outgoing non-connected calls
- **Grey:** Internal calls
- **Mauve:** Internal non-connected calls
- **Red:** Abandoned DDI (Direct Dialed In) calls
- **Pink:** Tandem calls

 The calls you see in the **Most recent calls** panel pertain only to the area to which the logged-in user has been granted access; administrators see calls from all sites.

Columns headers

The column headers shown in the most recent calls list are specific to each web user and can be customised by clicking on the **Columns** button, which will display the following panel:

Most recent calls **Columns** Save









Time	Date	CLI	Account code
10:56:46	<input checked="" type="checkbox"/> Time	<input type="checkbox"/> Dialed number	<input type="checkbox"/> LCR digits
10:56:23	<input checked="" type="checkbox"/> Source	<input type="checkbox"/> Source name	<input type="checkbox"/> Trunk access code
10:56:16	<input checked="" type="checkbox"/> Route	<input type="checkbox"/> Source ID	<input type="checkbox"/> Data source
10:56:08	<input checked="" type="checkbox"/> Destination	<input type="checkbox"/> Destination name	<input type="checkbox"/> Call reference
10:55:03	<input type="checkbox"/> Response	<input type="checkbox"/> Destination ID	<input type="checkbox"/> Flags
10:55:03	<input checked="" type="checkbox"/> Duration	<input type="checkbox"/> Tariff	<input type="checkbox"/> Voice location
10:54:53	<input type="checkbox"/> Cost	<input type="checkbox"/> Tariff band	<input type="checkbox"/> Voice filename
10:54:53			
10:54:46	120017	UNAVAILABLE	AJ Singh
10:14:23	Orange	07854180526	Sarah Connors
10:12:01	Orson Carte	07751390118	O2

Save

Include a column header in the list by ticking the box alongside each one. Click on the **Save** button to apply any changes.

Each column header is described below:

Field name	Description
Date	The date the call started.
Time	The time the call started.
Source	The place from where the call originated.
Route	The information displayed in this field is determined by the type of call: <ul style="list-style-type: none"> ▪ for incoming calls, this shows the CLI of the caller; ▪ for incoming internal calls, this shows either the caller's username or extension number; ▪ for outgoing calls, this shows the dialled number.
Destination	The information displayed in this field is determined by the type of call: <ul style="list-style-type: none"> ▪ for incoming calls, this shows the name of the user whose extension answered the call, or the extension number if not available; ▪ for outgoing calls, this shows the geographical location that was dialled, or an alias if defined in your contacts list; ▪ for internal calls, this shows the extension that was dialled, enclosed in square brackets [].
Response	The time it took for the call to be answered (in seconds).
Duration	The duration of the call (in hours, minutes and seconds).
Cost	The cost of the call.
CLI	The telephone number of the remote caller for inbound calls.
Dialled number	The number that was dialled in order to reach a particular destination.
Source name	The name of the person who made the call.
Source ID	The ID of the person who made the call.
Destination name	The name of the destination called, e.g. Manchester, Tri-Line, London.
Destination ID	The ID of the destination called.
Tariff	The name of the tariff table that was used to cost the call, e.g. BT.
Tariff band	The specific tariff band that was used to cost the call, e.g. International, National, Mobile etc.

Account code	The account code associated with the call.	
LCR Digits	The Least Cost Routing (LCR) digits used to route the call.	
Trunk access code	The trunk access code used to access a group of channels.	
Data source	The location where the call originated.	
Call reference	Any call reference number associated with the call.	
Flags	<p>Any flags associated with a call, as described below:</p> <ul style="list-style-type: none"> ▪  The call has no associated voice recording. ▪  The call has an associated voice recording; click on the icon to listen to the call. ▪  The call has not been scored; click on the icon to score the call. ▪  The call has been scored; click on the icon to review scoring information for the call. ▪  The call has not been annotated; click on the icon to add a note to the call. ▪  The call has one or more associated notes; click on the icon to review the note(s). ▪  The call has no related transfer legs. ▪  The call has related transfer legs; click on the icon to view all transfers associated with the call. 	
Voice location	The unique ID of the call recording device that captured audio for the call.	

Voice filename	The unique call reference identifying any voice recording associated with the call.
-----------------------	---

Reordering column headers

Each column header can be reordered by clicking and dragging it to the new location, as shown below:

Time	Source	Route	Destination	Duration
10:17:53	London	02074372326	Rose Pink	00:01:36
10:16:31	Rachel Vaughn	3388	Justin Case	00:00:30
10:16:18	London	02076382847	AJ Singh	00:00:50
10:16:08	London	02076788000	Shane Winrey	00:02:22
10:15:06	London	02089443192	11042	00:00:35
10:14:58	London	02089173800	Cliff Jones	00:00:03
10:14:53	Chastity Case	02078239990	London	00:00:45
10:14:51	120021	UNAVAILABLE	Wayne Robert	00:02:43
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10:14:36	120031	UNAVAILABLE	Rose Pink	00:01:35
10:14:23	Orange	07854180526	Sarah Connors	00:00:11
10:12:01	Orson Carte	07751390118	O2	00:00:25

Columns can be sorted by clicking the relevant column header, with each click toggling between ascending and descending order.



Any layout changes you make to the `Most recent calls` panel are saved only for the current web user and do not affect other web users.

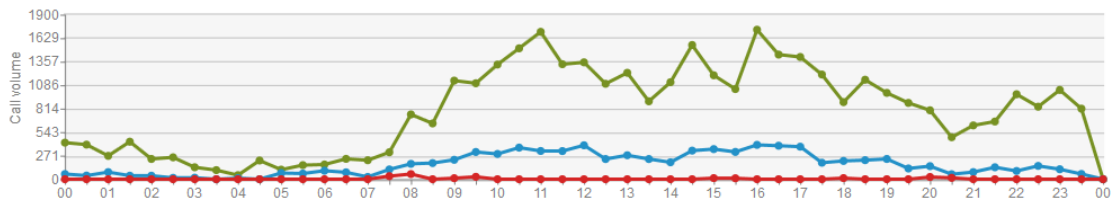
Reports

What are reports?

Reports are the means by which your telephone call data is presented to you in a visual, meaningful way. Although the results of each report type differ substantially, running each of them involves following a similar, wizard-style procedure. Each report accepts several filters and options, allowing you to tailor the results to exactly the information you are looking for.

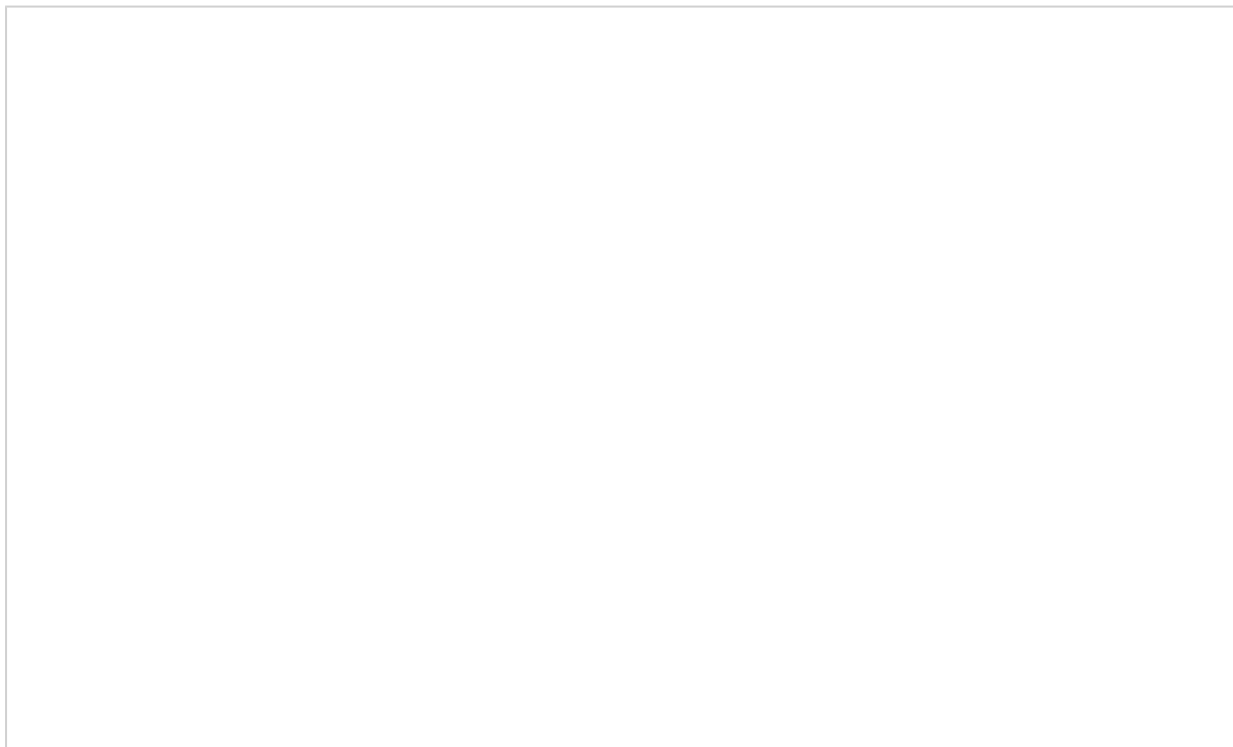
They can be run [on demand](#) at any time, or be [scheduled](#) to run at predetermined times in the future.

Below is an example output of the `Call Analysis` report:



Time slot ▲	Missed			Answered				Outbound				Cost		
	Duration (s)			Ring time (s)		Duration		Duration						
	Σ	Max	Avg	Σ	Max	Avg	Σ	Max	Avg	Total	Avg	Total		
00:00 - 00:29	-	-	-	426	11	-	00:07:34	00:01:28	60	00:00:32	00:00:11	00:11:45	0.036	2.171
00:30 - 00:59	-	-	-	403	-	-	00:09:26	00:01:35	42	00:00:53	00:00:23	00:16:47	0.057	2.406
01:00 - 01:29	-	-	-	272	-	-	00:07:57	00:01:34	83	00:02:31	00:00:29	00:41:18	0.073	6.051
01:30 - 01:59	-	-	-	437	-	-	00:05:19	00:01:23	41	00:00:35	00:00:13	00:09:29	0.039	1.615
02:00 - 02:29	-	-	-	236	10	-	00:08:02	00:01:30	41	00:00:34	00:00:14	00:10:02	0.039	1.592
02:30 - 02:59	-	-	-	255	4	-	00:03:30	00:01:05	16	00:02:06	00:01:10	00:18:54	0.155	2.476
03:00 - 03:29	-	-	-	139	-	-	00:04:43	00:01:29	18	00:00:11	00:00:06	00:01:50	0.030	0.540
03:30 - 03:59	-	-	-	106	-	-	00:09:51	00:01:16	-	-	-	-	-	-
04:00 - 04:29	-	-	-	47	8	1	00:01:35	00:00:43	13	00:00:34	00:00:13	00:03:01	0.038	0.490
04:30 - 04:59	-	-	-	218	19	2	00:06:12	00:00:51	-	-	-	-	-	-
05:00 - 05:29	-	-	-	111	25	2	00:06:33	00:01:20	72	00:02:25	00:00:29	00:35:17	0.073	5.276
05:30 - 05:59	-	-	-	164	8	1	00:11:33	00:01:33	66	00:00:49	00:00:14	00:15:26	0.040	2.628
06:00 - 06:29	-	-	-	171	25	2	00:05:11	00:01:10	99	00:00:35	00:00:09	00:16:21	0.033	3.290
06:30 - 06:59	-	-	-	237	13	-	00:05:14	00:01:10	80	00:00:34	00:00:10	00:13:58	0.034	2.696
07:00 - 07:29	-	-	-	221	25	1	00:06:54	00:01:29	27	00:00:29	00:00:13	00:06:07	0.038	1.029
07:30 - 07:59	36	51	16	314	39	2	00:03:31	00:00:52	114	00:26:48	00:02:24	04:33:49	0.149	16.997

Reports overview video



Running reports on demand

To run a report on demand, click on the **Reports** tab and, from the list of reports in the left-hand panel, select the report you want to run. Click on the **Select this report** button to start the report wizard, as shown below:

Reports

- Account summary
- Busy channels
- Busy times
- Call analysis**
- Call geography
- Call scoring
- Call volumes
- Custom report
- Daily activity
- Enterprise overview
- Frequent numbers
- Missed calls

Call analysis

My call analysis 2011-08-19 14:07:07

Breaks down your working day into half-hour segments and details important information about your calls. You get a clear graphical representation of how many outbound, answered and abandoned calls you've made.

Figures are shown as maximum and averages so you can more effectively plan your staffing requirements throughout each working day.

Select this report

Scheduled reports Properties Delete

Report	Runs every	Last run	Next runs
My busy times	1 month	Never	16 August 2012 00:00:00
My call analysis	1 month	Never	16 November 2012 00:00:00

A new window will open, where you can set the parameters of your report. If you do not want to change any of the default settings, click on the **Finish** button, as shown below:

Enterprise overview [Close]

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period: Yesterday ⓘ

From date: 01 Jul 2011

To date: 02 Apr 2013

From time: 00 : 00 : 00

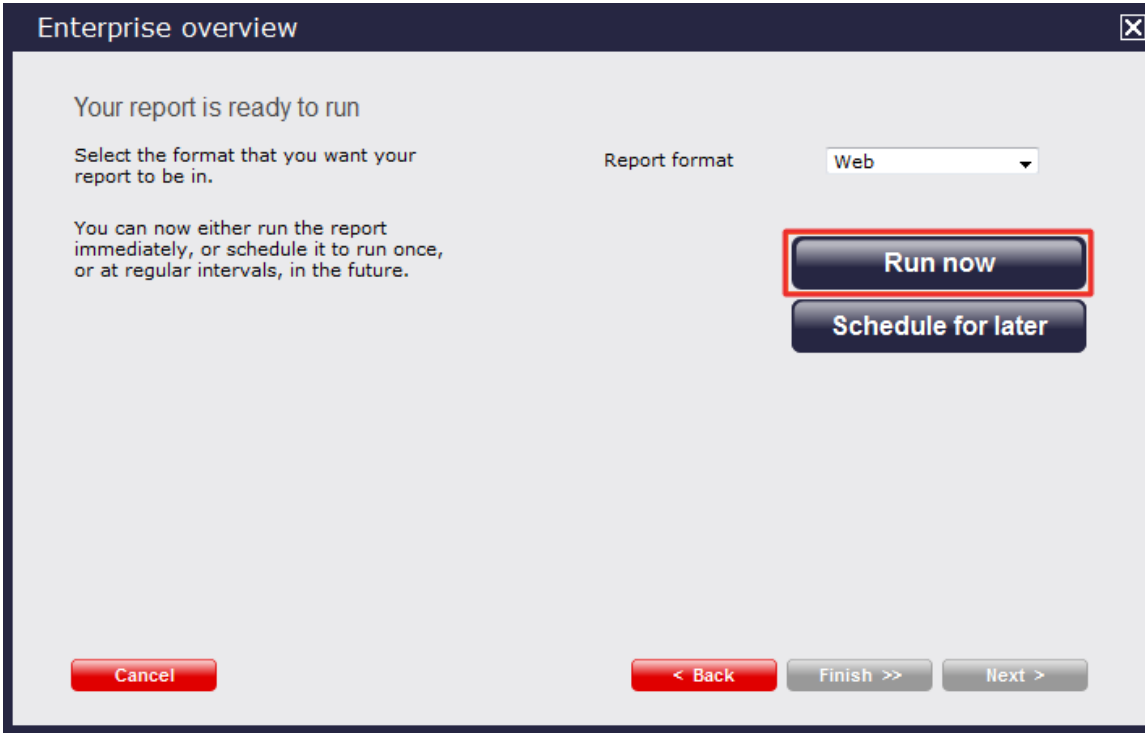
To time: 23 : 59 : 59

Cancel < Back **Finish >>** Next >


If you want to change any of the report's parameters, refer to the relevant page in the list below:

- Setting the report period
- Setting the report entity
- Setting the report filters
- Setting the report options
- Setting the report formats

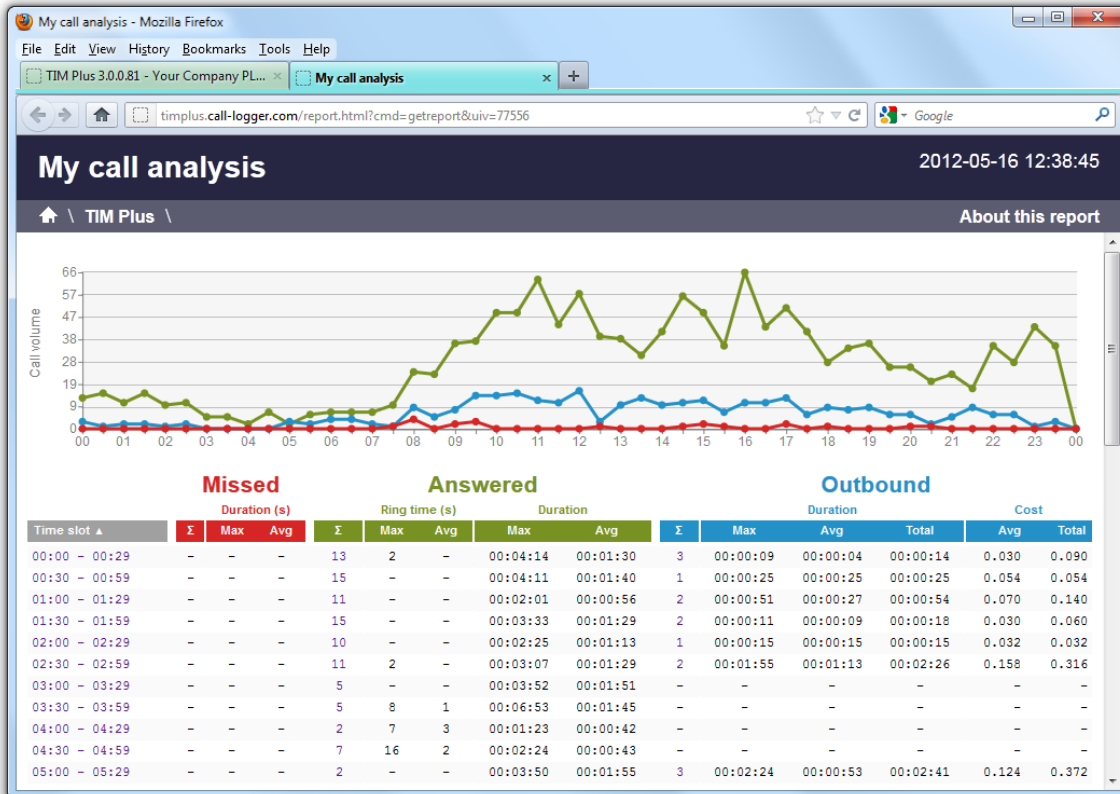
When you are ready to run the report, click on the **Run now** button, as shown below:



When the report has finished, its results will open in a new browser window.

 If the results window does not appear after running your report, it may be because your browser is using a pop-up blocker. You should disable pop-up blocking for the TIM Plus web address.

The example below shows a Call Analysis report in web format:



Scheduling reports

Scheduling reports

- Preparing the report
- Setting the scheduling parameters
- Editing a scheduled report
- Deleting a scheduled report

Preparing the report

To schedule a report, choose the one you want to run from the list in the left-hand panel, then click on the **Select this report** button to start the report wizard, as shown below:

The screenshot shows the TIMPLUS Reports interface. The 'Reports' section on the left lists various report types, with 'Call analysis' selected. The main area displays a 'Call analysis' report for the date 2011-06-19 14:07:07. The report includes a line graph showing call volume over time, categorized into Missed, Answered, and Outbound. Below the graph is a table with columns for Date, Time, Missed, Answered, and Outbound. A red box highlights the 'Select this report' button. Below the report details, there is a 'Scheduled reports' section with a table listing scheduled reports and their parameters.

Report	Runs every	Last run	Next runs
My busy times	1 month	Never	16 August 2012 00:00:00
My call analysis	1 month	Never	16 November 2012 00:00:00

In the same way as with running a report on demand, you can modify the report period, entity, filters, options and format before scheduling, by referring to the relevant pages below:

- [Setting the report period](#)
- [Setting the report entity](#)
- [Setting the report filters](#)
- [Setting the report options](#)
- [Setting the report formats](#)

If you do not want to change any of the default settings, click on the **Finish** button, as shown below:

Busy times

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period: Yesterday i

From date: 01 Jul 2011

To date: 16 May 2012

From time: 00 : 00 : 00

To time: 23 : 59 : 59

Once you have selected your report's parameters, click on the button.

Call analysis

Your report is ready to run

Select the format that you want your report to be in.

Report format: PDF

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

In the new window that opens you can set the scheduling parameters of the report:

- when you want the report to first run
- how frequently you want the report to run
- how you want the report delivered
- who should receive the report

Setting the scheduling parameters

When do you want the first report to run?

Enter the future date and time that you want the report to run at, as shown below:

Call analysis [X]

Choose when you want the report to be delivered

Choose the date and time you want the report to be generated.

Start running the report on
 2 Apr 2013 at 00 : 00 : 00

Repeat the report every
 1 months

Cancel < Back Finish >> Next >

How often do you want the report to recur?

If you want the report to recur, tick the Repeat the report box and select the frequency for re-runs from the drop-down list, as shown below:

Call analysis [X]

Choose when you want the report to be delivered

Choose the date and time you want the report to be generated.

Start running the report on
 2 Apr 2013 at 00 : 00 : 00

Repeat the report every

1 months
 hours
 days
 weekdays
 weeks
 months
 years

Cancel < Back Finish >> Next >

How do you want the report delivered?

The report can be delivered by e-mail or saved as a file to a specific location, by choosing a delivery method from the drop-down list:

Call analysis ✕

How is the report to be delivered?

Choose how you would like this report to be delivered.

You can save the report as a file or have it sent by email.

Delivery method ▼
 Email address ▼

Email

Email

File

Cancel
< Back
Finish >>
Next >

Who receives the report?

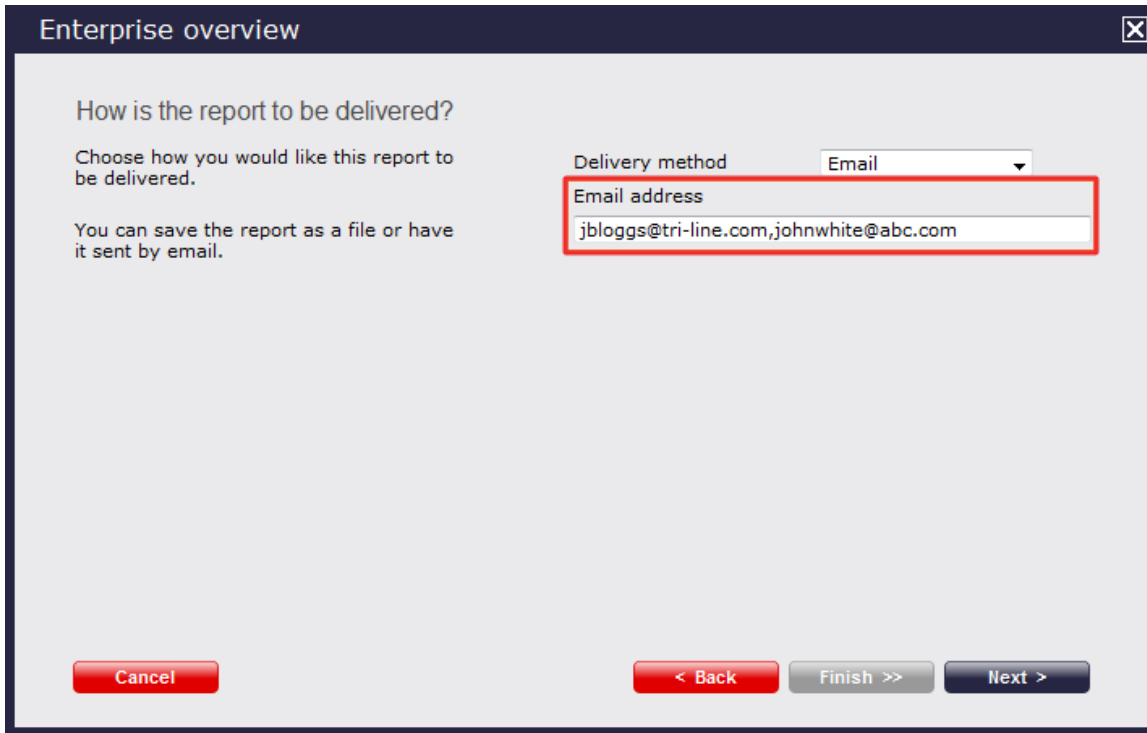
Delivery method	Description
E-mail	<ul style="list-style-type: none"> ▪ Enter the e-mail address that you want the report to be delivered to ▪ If you want the report to be e-mailed to more than one person, separate each address using the ; symbol.

File

- Type the full filename, including folder, of the location that you want the report to be saved as, e.g. `C:\My Reports\My Call Analysis.html`
- The filename can include the following variables:

Variable	Description
<code>{year}</code>	The current year
<code>{month}</code>	The current month
<code>{week}</code>	The current week number
<code>{day}</code>	The current day of the month
<code>{hhmmss}</code>	The time that the report ran, in a compact hours, minutes and seconds format
<code>{name}</code>	The name given to the report
<code>{uiv}</code>	A unique numeric report identifier

- To save the report to a network share, specify the filename using a UNC path. You must ensure that the user account running the TIM Plus service has access privileges to write to the file you have specified.



Enterprise overview [X]

How is the report to be delivered?

Choose how you would like this report to be delivered.

You can save the report as a file or have it sent by email.

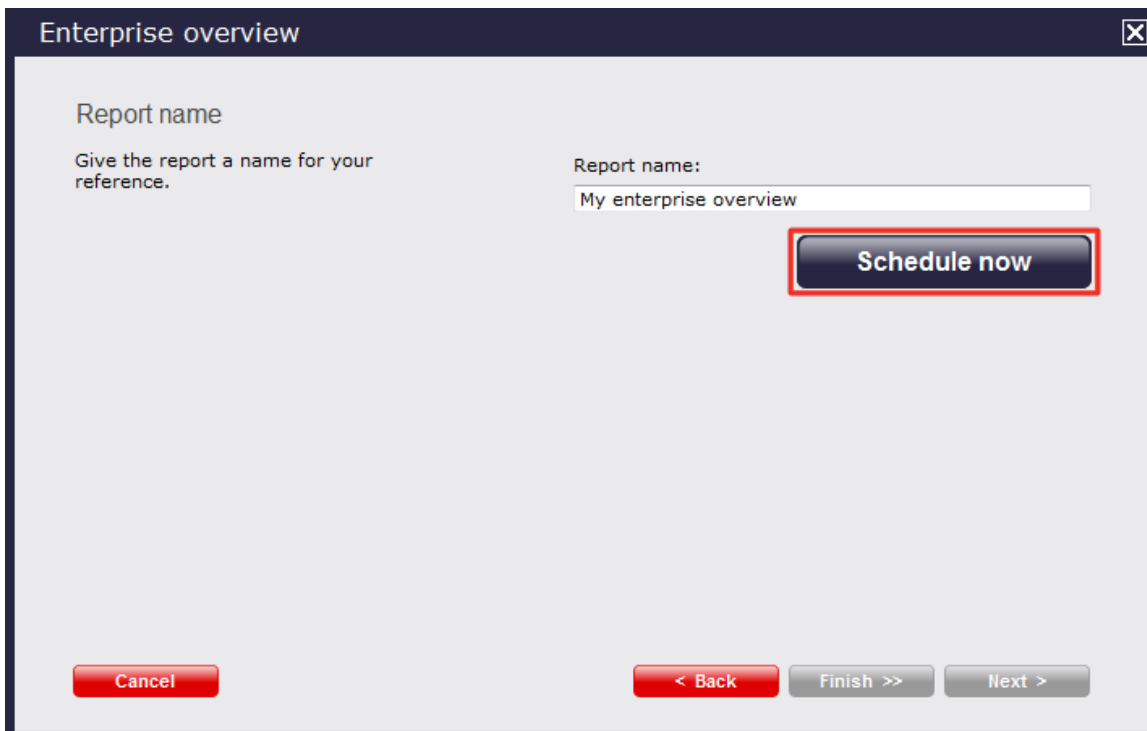
Delivery method: Email

Email address: jbloggs@tri-line.com,johnwhite@abc.com

Buttons: Cancel, < Back, Finish >>, Next >

Schedule now

When you have configured the scheduling parameters, click on the **Schedule now** button to save the report's definition.



Enterprise overview [X]

Report name

Give the report a name for your reference.

Report name: My enterprise overview

Schedule now

Buttons: Cancel, < Back, Finish >>, Next >

Notice that your newly-scheduled reports are now listed in the `Scheduled reports` panel at the bottom of the screen, as shown below:

Reports

- Account summary
- Busy channels
- Busy times
- Call analysis**
- Call geography
- Call scoring
- Call volumes
- Custom report
- Daily activity
- Enterprise overview
- Frequent numbers
- Missed calls

Call analysis

My call analysis 2011-06-19 14:37:07

Breaks down your working day into half-hour segments and details important information about your calls. You get a clear graphical representation of how many outbound, answered and abandoned calls you've made.

Figures are shown as maximum and averages so you can more effectively plan your staffing requirements throughout each working day.

Select this report

Scheduled reports Properties Delete

Report	Runs every	Last run	Next runs
My busy times	1 month	Never	16 August 2012 00:00:00
My call analysis	1 month	Never	16 November 2012 00:00:00

i The properties of a scheduled reports are web user specific, and can be seen or edited only by the web user that initially added the report in the system.

Editing a scheduled report

To edit a scheduled report, select it from the **scheduled reports** panel, and click on the **Properties** button, as shown below:

Reports

- Account summary
- Busy channels
- Busy times
- Call analysis**
- Call geography
- Call scoring
- Call volumes
- Custom report
- Daily activity
- Enterprise overview
- Frequent numbers
- Inbound call performance

Call analysis

My call analysis 2011-06-19 14:37:07

Breaks down your working day into half-hour segments and details important information about your calls. You get a clear graphical representation of how many outbound, answered and abandoned calls you've made.

Figures are shown as maximum and averages so you can more effectively plan your staffing requirements throughout each working day.

Select this report

Scheduled reports Properties Delete

Report	Runs every	Last run	Next runs
My busy channels on x dept	1 month	02 May 2013 11:50:31	01 June 2013 10:00:00

A new window with the properties of the report will open, where you can edit the period, entity, filters, options and format of the report.

Call analysis

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period: Yesterday ⓘ

From date: 01 Jul 2011

To date: 17 May 2012

From time: 00 : 00 : 00

To time: 23 : 59 : 59

Cancel < Back Finish >> Next >

Click on the links below for details of how to configure these parameters:

- [Setting the report period](#)
- [Setting the report entity](#)
- [Setting the report filters](#)
- [Setting the report options](#)
- [Setting the report formats](#)

Deleting a scheduled report

To delete a scheduled report, select it from the **Scheduled reports** panel and click the **Delete** button, as shown below:

The screenshot shows the TIMPLUS web interface. At the top, there is a navigation bar with 'Reports', 'Directory', 'Call view', 'Live stats', 'Tariff editor', 'Settings', and 'Alerts'. The 'Reports' section is active, displaying a sidebar with various report categories. 'Call analysis' is selected, showing a preview of the report with a line graph and a table. A 'Select this report' button is visible. Below this, the 'Scheduled reports' section contains a table with columns for 'Report', 'Runs every', 'Last run', and 'Next runs'. A 'Delete' button is highlighted in red next to the 'Properties' button.

Report	Runs every	Last run	Next runs
My busy channels on x dept	1 month	02 May 2013 11:50:31	01 June 2013 10:00:00

Report parameters

Setting the report period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

<p>Period</p> <p>From date</p> <p>To date</p> <p>From time</p> <p>To time</p>	<div style="border: 1px solid #ccc; padding: 5px;"> ? Y Yesterday Today Yesterday This week Last week This month Last month This year All calls Custom period </div>
---	--

Preset period

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

Custom period

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period	Custom period ?
From date	01 Jul 2011
To date	02 Apr 2013
From time	00 : 00 : 00
To time	23 : 59 : 59

Run or schedule the report

To run or schedule the report without setting any further parameters, select the **Finish** button; to apply further settings, click on the **Next** button, which will direct you to the **Entity** section of the report wizard.

Setting the report entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity

Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites) ?
Group	<input type="text"/> ?
User	<input type="text"/> ?

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	<input type="text" value="All sites"/>	?
------	--	---

Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	<input type="text" value="All groups"/>	?
-------	---	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	<input type="text" value="All users"/>	?
------	--	---

- ✓ If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.













Run or schedule the report

To run or schedule the report without setting any further parameters, select the **Finish** button; to apply further settings, click on the **Next** button, which will direct you to the [Filters](#) section of the report wizard.

Setting the report filters


Below is a list of all report filters available in TIM Plus, although not all filters are relevant to all reports:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	<input type="text" value="All calls"/>		Duration	<input type="text"/>	
Carrier	<input type="text" value="(All carriers)"/>		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code 

To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to select the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.

Call type 

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.


Carrier 

-  If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.


You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.


LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

<input type="text"/>

Response time 


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the `-` symbol and; to specify limits, use the comparison operators, `>`, `<`, and `!`.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the `hh:mm:ss` format.

For example, to include only calls that began after 10 am, you could enter `10:00:00` in the `start time` field, as shown below:

Start time 

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code 


You can use the `!` symbol to explicitly exclude a trunk access code from the report's results, and/or the `*` symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the `9` trunk access code, you could enter `!9`. To report on more than one trunk access code, use a comma to separate each entry.

Run or schedule the report

To run or schedule the report without setting any further parameters, select the `Finish` button; to apply further settings, click on the `Next` button, which will direct you to the `Options` section of the report wizard.


Setting the report options


Reporting options


This section allows you to further narrow down your report results, by excluding certain types of call or sorting the results in a particular manner. These options are specific to the type of report you are running and differ between report types. Next to each option there is an `Information` icon  which, if clicked, opens a help prompt describing that particular option.


Options


Specify one or more of any additional report options shown here.

Exclude weekends 

Exclude transfers 

Sort order 

Sort results by 

Ignore missed calls shorter than seconds 

In the example above, the user wants to exclude weekends and transferred calls, as well as missed calls shorter than 3 seconds.

Run or schedule the report

To run or schedule the report without setting any further parameters, select the `Finish` button; to apply further settings, click on the `Next` button, which will direct you to the `Format` section of the report wizard.

Setting the report formats

Report format

This section allows you to choose the media format of your completed report. To select a media format, select it from the drop-down list:

Your report is ready to run

Select the format that you want your report to be in.

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Report format

Web

Web

PDF







Excel




CSV

XML

Schedule for later

The following formats are available:

Format	Description
 Web	<ul style="list-style-type: none"> ▪ The web format is the default interface for all report types. The results are displayed in a new browser window which contains a combination of HTML, CSS and JavaScript content. ▪ To navigate through a report consisting of multiple pages, click on the , ,  or  icons at the top-right corner of the screen. ▪ Universally-accessible, the web format provides a mixture of graphical charts and tabular data, whose column headers are click-able to allow dynamic sorting of results.
 PDF	<ul style="list-style-type: none"> ▪ The PDF format guarantees an identical look across all operating systems, making it an ideal report format for printing out on paper, or for e-mailing to colleagues inside and outside of your organisation. ▪ Due to the static nature of the PDF format, dynamic sorting of column headers is not available, although results can be pre-sorted using the filters and options available during report creation.

 XLS	<p>The Excel format is useful for onward manipulation of the data contained in your reports, or for including results in popular spreadsheet packages.</p>
 CSV	<p>The CSV format allows report results to be arranged in comma-separated lists of data.</p> <p>CSV files are often used for transferring data between different applications, such as databases, spreadsheets, and other third-party programs.</p>
 XML	<p>The XML format can be useful when transferring the structured data from your report results to third-party applications, such as billing, accounting and time management applications.</p>

Run or schedule the report

This is the final screen of the report wizard. Click on the **Run now** button to run the report immediately, or select the **Schedule for later** button to schedule the report to run at a later time. To revise the report parameters you have entered, click on the **Back** button, which will lead you to the previous report options.

Report types

Account Summary

The Account Summary report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Account Summary report produces a type of phone bill for tracking how much billable time you've spent with each client, grouping its results by account code.



In order to use this report, your telephone system needs to be capable of providing account code information as part of its call logging data.

Calls with no account code

Carrier▲	Charge band	Σ	Total duration	Total cost
London	No charge band	95	01:06:29	-
BT	International	2	00:00:06	0.087
BT	Local	31	00:41:59	3.730
BT	National	51	02:13:01	13.059
		179	04:01:35	16.876

52003

Carrier▲	Charge band	Σ	Total duration	Total cost
BT	National	3	00:03:45	0.377
		3	00:03:45	0.377

52004

Carrier▲	Charge band	Σ	Total duration	Total cost
BT	National	5	00:30:32	1.987
		5	00:30:32	1.987

52005

Carrier▲	Charge band	Σ	Total duration	Total cost
BT	National	3	00:05:23	0.374

Running the report

On the Reports screen, select the Account summary report from the left-hand pane and click the **Select this report** button.

The screenshot shows the TIMPLUS Reports interface. On the left, a list of reports is shown, with 'Account summary' selected. The main content area displays a preview of the 'Account summary' report, which includes a table of call data (similar to the tables above) and a 'Select this report' button. To the right of the preview, there is explanatory text: 'Produces a type of phone bill, grouped by the account code(s) that were used to make each call.' and 'Account codes are often used to mark calls as having been made or received on behalf of clients, and this report allows you to collate these for billing back purposes, or to track how much time you've spent with each client.'

A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period ⓘ

From date

To date

From time

To time

Yesterday

Today

Yesterday

This week

Last week

This month

Last month

This year


All calls

Custom period

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day (normally Monday) of the current week. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own *Start date*, *Start time*, *End date* and *End time* of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	---















If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	<input type="text" value="0140"/>	
--------------	-----------------------------------	---

To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
-----------	-----------	---

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.


Carrier	All carriers	
---------	--------------	---

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the `start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---







You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.

Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options

Specify one or more of any additional report options shown here.

<input checked="" type="checkbox"/>	Exclude weekends	
<input type="checkbox"/>	Exclude transfers	
<input type="checkbox"/>	Don't replace numbers with contact names	
Sort order	<input type="text" value="Ascending"/>	
Sort results by	<input type="text" value="Carrier"/>	
Ignore missed calls shorter than	<input type="text" value="3"/> seconds	


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

<input checked="" type="checkbox"/> Exclude weekends	
--	---


Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

<input checked="" type="checkbox"/> Exclude transfers	
---	---


Don't replace numbers with contact names

Tick this option if you do not want to replace dialled numbers, CLIs and account codes with their associated names, as defined in your web user's contacts list.

<input checked="" type="checkbox"/> Don't replace numbers with contact names	
--	---


Sort order

Choose from the **Sort order** drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order	<input type="text" value="Ascending"/>	
------------	--	---

Sort results by


To sort your report's results by a particular column, select it from the **Sort results by** drop-down list.

Sort results by	<input type="text" value="Carrier"/>	
-----------------	--------------------------------------	---

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report,

enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter 3 .

Ignore missed calls shorter than seconds 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are Web, PDF, Excel, CSV and XML. More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in.

Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Run now

Schedule for later

The report's results

The results of this report are presented as a tabular breakdown of calls - grouped by account code - according to the parameters you've selected.

Below is an example of this report's output in web format, showing a summary of account code usage:

My account summary				2012-05-17 15:05:01
Home \ TIM Plus \ London \ Accounts \				About this report
Calls with no account code				
Carrier▲	Charge band	Σ	Total duration	Total cost
London	No charge band	95	01:06:29	-
BT	International	2	00:00:06	0.087
BT	Local	31	00:41:59	3.730
BT	National	51	02:13:01	13.059
		179	04:01:35	16.876
52003				
Carrier▲	Charge band	Σ	Total duration	Total cost
BT	National	3	00:03:45	0.377
		3	00:03:45	0.377
52004				
Carrier▲	Charge band	Σ	Total duration	Total cost
BT	National	5	00:30:32	1.987
		5	00:30:32	1.987
52005				
Carrier▲	Charge band	Σ	Total duration	Total cost
BT	National	3	00:05:23	0.374

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The `web` format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results.

The headers of this report are as follows:

Header	Description
Carrier	The carrier used to route the call.
Charge band	The charge band used to cost the call.
Σ	The total volume of calls to each charge band.
Total duration	The total time spent on calls to each charge band.
Total cost	The total cost of calls to each charge band.

By clicking on the `About this report` link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Busy Channels

The Busy Channels report

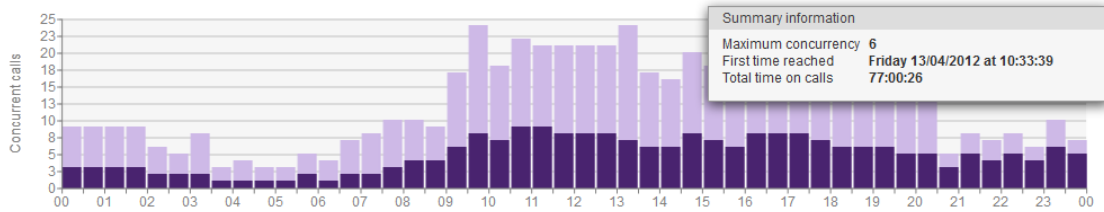
- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Busy Channels report allows you to break down each business day into half-hour periods, showing the maximum and average number of telephone lines in use for each half-hour period. This report is useful for determining whether or not you have enough lines or if you have too many.

My busy channels 2012-05-17 15:17:14

↑ \ TIM Plus \ London \ Accounts \
About this report



Time slot ▲	Total duration	Max busy	Average busy	Time slot ▲	Total duration	Max busy	Average busy
00:00 - 00:29	10:32:59	9	3	12:00 - 12:29	37:33:27	21	8
00:30 - 00:59	10:13:04	9	3	12:30 - 12:59	40:49:02	21	8
01:00 - 01:29	08:39:15	9	3	13:00 - 13:29	40:25:13	24	7
01:30 - 01:59	09:03:03	9	3	13:30 - 13:59	37:33:28	17	6
02:00 - 02:29	06:41:01	6	2	14:00 - 14:29	33:30:39	16	6
02:30 - 02:59	05:54:19	5	2	14:30 - 14:59	52:37:49	20	8
03:00 - 03:29	03:30:33	8	2	15:00 - 15:29	40:35:59	18	7
03:30 - 03:59	01:58:22	3	1	15:30 - 15:59	32:07:09	15	6
04:00 - 04:29	00:43:55	4	1	16:00 - 16:29	48:30:14	24	8
04:30 - 04:59	03:12:33	3	1	16:30 - 16:59	49:29:40	25	8
05:00 - 05:29	03:09:39	3	1	17:00 - 17:29	54:17:28	23	8
05:30 - 05:59	04:05:06	5	2	17:30 - 17:59	45:28:50	20	7
06:00 - 06:29	04:04:27	4	1	18:00 - 18:29	34:52:17	18	6
06:30 - 06:59	04:56:38	7	2	18:30 - 18:59	35:59:39	19	6
07:00 - 07:29	05:34:05	8	2	19:00 - 19:29	31:05:41	16	6
07:30 - 07:59	07:01:31	10	3	19:30 - 19:59	32:16:24	18	5
08:00 - 08:29	16:03:34	10	4	20:00 - 20:29	25:13:06	16	5

Running the report

On the Reports screen, select the **Busy channels** report from the left-hand pane and click the **Select this report** button.

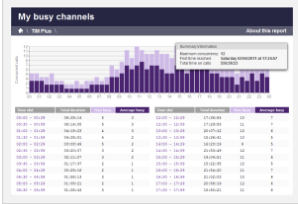
TIMPLUS

[Reports](#)
[Directory](#)
[Call view](#)
[Live stats](#)
[Tariff editor](#)
[Settings](#)
[Alerts](#)

Reports

- Account summary
- Busy channels**
- Busy times
- Call analysis
- Call geography
- Call scoring
- Call volumes
- Custom report
- Daily activity
- Enterprise overview
- Frequent numbers
- Inbound call performance
- Missed calls
- Phone bill
- Random call selection
- Target response
- Top calls
- Unused devices
- User activity

Busy channels



Allows you to break down each business day into half-hour periods, showing the maximum and average number of telephone lines in use in any particular half-hour.

This report is ideal for determining whether or not you have enough lines, or if you have too many!

Running this report over longer periods increases the reliability of its results.

Select this report

A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period

From date

To date

From time

To time

Yesterday

Today

Yesterday

This week

Last week

This month

Last month

This year


All calls

Custom period

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.

- Running this report over longer periods of time gives a more accurate picture of your telephone line usage.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	---

- If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>	i	Dialled number	<input type="text"/>	i
Call type	<input type="text" value="All calls"/>	i	Duration	<input type="text"/>	i
Carrier	<input type="text" value="(All carriers)"/>	i	LCR code	<input type="text"/>	i
CLI	<input type="text"/>	i	Response	<input type="text"/>	i
Cost	<input type="text"/>	i	Start time	<input type="text"/>	i
Destination	<input type="text"/>	i	Trunk access code	<input type="text"/>	i

Account code

To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code [i](#)

To report on more than one account code, separate each code using a comma.

Call type

This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal etc. To report on all types of call, set this to **All calls**.

Call type [i](#)

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier [i](#)

[i](#) If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.


You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI [i](#)

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<2.00	
------	-------	---

You can specify a cost range by using the – symbol; to specify limits, use the comparison operators, >, <, and ! .

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the ! and * symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter !France*, as shown below:

Destination	!France*	
-------------	----------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. 0033 for calls to France).

Dialled number	0033	
----------------	------	---

You can use the ! symbol to explicitly exclude a dialled number from the report's results, and/or the * symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use !020726526*. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	>1800	
----------	-------	---

You can specify a duration range by using the – symbol; to specify limits, use the comparison operators, >, <, and ! .

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	162	
----------	-----	---

You can use the ! symbol to explicitly exclude a LCR code from the report's results, and/or the * symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning 162, you could enter !162*. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	>10	
---------------	-----	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the – symbol and; to specify limits, use the comparison operators, >, <, and ! .

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the hh:mm:ss format.

For example, to include only calls that began after 10 am, you could enter 10:00:00 in the start time field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---






You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.

Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options

Specify one or more of any additional report options shown here.

<input type="checkbox"/>	Exclude weekends	
<input type="checkbox"/>	Exclude transfers	
Sort order	<input type="text" value="Ascending"/>	
Sort results by	<input type="text" value="Time slot"/>	
Ignore missed calls shorter than	<input type="text" value="3"/> seconds	


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

<input checked="" type="checkbox"/>	Exclude weekends	
-------------------------------------	------------------	---

Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

<input checked="" type="checkbox"/>	Exclude transfers	
-------------------------------------	-------------------	---


Sort order

Choose from the **sort order** drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order	<input type="text" value="Ascending"/>	
------------	--	---


Sort results by

To sort your report's results by a particular column, select it from the **sort results by** drop-down list.

Sort results by	<input type="text" value="Time slot"/>	
-----------------	--	---

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter **3**.

Ignore missed calls shorter than seconds 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are Web, PDF, Excel, CSV and XML.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or [schedule it for future delivery](#).

Your report is ready to run

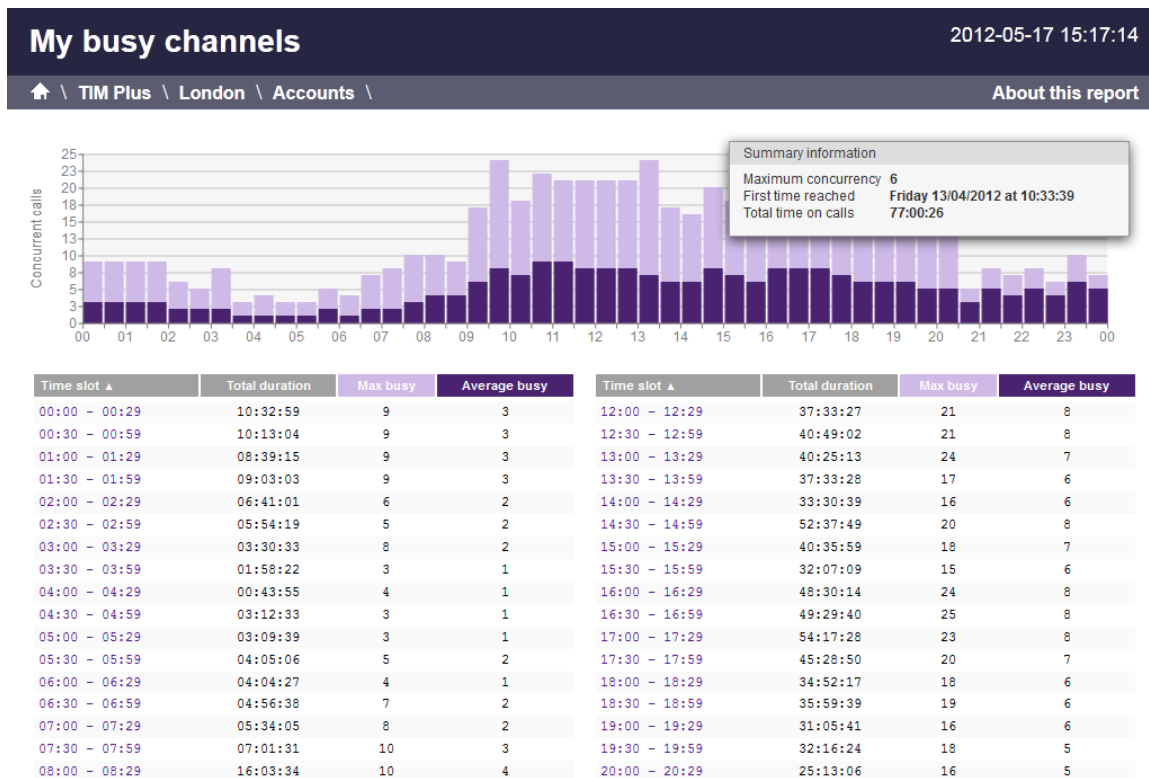
Select the format that you want your report to be in. Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

The report's results

Web format

Below is an example of this report's output in web format, displaying the activity of your telephone lines grouped in half-hour time slots:



The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. By clicking on the [About this report](#) link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The body of the report consists of a graph and a table:

- The graph is a quick and easy indication of your line usage, broken down into half-hour time slots. The percentage on the y-axis shows the number of lines utilised, and the x-axis shows each half-hour of the day. The bars on the graph coloured light-purple show the *maximum* number of busy trunks in each particular half-hour, and the overlaid dark-purple ones show the *average* number of busy trunks in the same time period.
- The table displays the actual data organised in columns for maximum and average busy lines and the total duration for each half-hour time slot. Each column is described below:

Header	Description
Time slot	The time of day in half-hour periods
Total duration	The total duration of all calls made or received within the time slot shown
Max busy	The maximum number of trunks in use during the time slot shown
Average busy	The average number of trunks in use during the time slot shown

All column headers are clickable, allowing you to dynamically reorder the results.

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



PDF format

If you chose to run the report in PDF format, the report will consist of three pages.

The first page shows the login name of the person who has prepared/scheduled the report, the entity you are reporting on, the period covered and any filters used in the report.

My busy channels

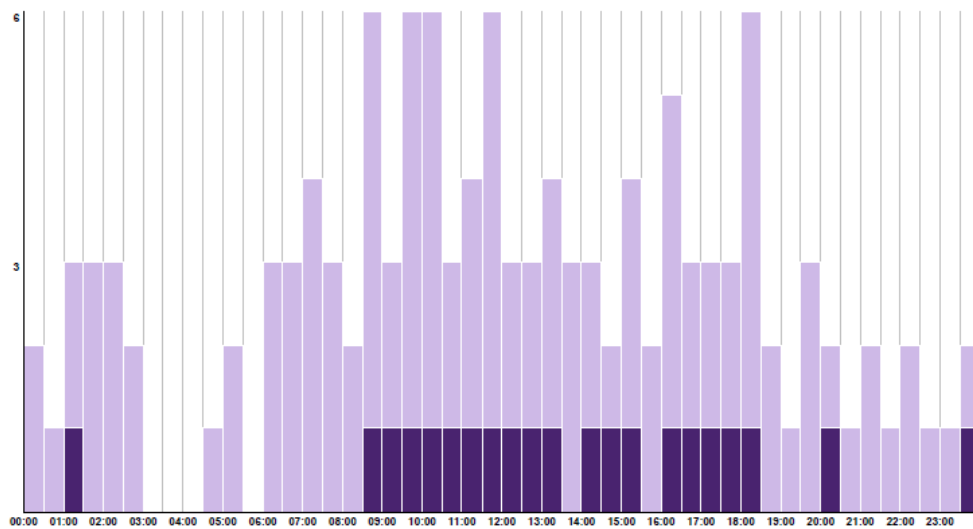
Prepared by Joe Bloggs

Covering period 01 April 2012 00:00:00
to 30 April 2012 23:59:59

Entity \ TIM Plus \ London \ Accounts

The second page has a graph depicting the average and maximum number of channels used, as shown below:

Report



The third page contains a table of time slots, showing the maximum and average number of channels that were busy, along with the total duration of time spent on calls during each time slot.

Data

Time slot	Total duration	Max busy	Average busy	Time slot	Total duration	Max busy	Average busy
00:00 - 00:29	00:09:06	2	-	12:00 - 12:29	01:11:34	3	1
00:30 - 00:59	00:01:24	1	-	12:30 - 12:59	00:36:41	3	1
01:00 - 01:29	00:52:45	3	1	13:00 - 13:29	00:55:11	4	1
01:30 - 01:59	00:13:54	3	-	13:30 - 13:59	00:07:28	2	-
02:00 - 02:29	00:52:27	3	-	14:00 - 14:29	00:53:04	3	1
02:30 - 02:59	00:22:47	2	-	14:30 - 14:59	01:34:11	2	1
03:00 - 03:29	-	-	-	15:00 - 15:29	01:36:15	4	1
03:30 - 03:59	-	-	-	15:30 - 15:59	00:21:46	2	-
04:00 - 04:29	-	-	-	16:00 - 16:29	00:27:52	5	1
04:30 - 04:59	00:15:08	1	-	16:30 - 16:59	01:44:37	3	1
05:00 - 05:29	00:01:19	2	-	17:00 - 17:29	00:45:47	3	1
05:30 - 05:59	-	-	-	17:30 - 17:59	02:18:00	3	1
06:00 - 06:29	00:09:22	3	-	18:00 - 18:29	02:40:29	6	1
06:30 - 06:59	00:39:00	3	-	18:30 - 18:59	01:28:19	2	-
07:00 - 07:29	00:34:10	4	-	19:00 - 19:29	00:31:57	1	-
07:30 - 07:59	00:47:09	3	-	19:30 - 19:59	00:01:43	3	-
08:00 - 08:29	00:51:53	2	-	20:00 - 20:29	00:56:20	2	1
08:30 - 08:59	01:49:55	6	1	20:30 - 20:59	00:13:47	1	-
09:00 - 09:29	03:39:58	3	1	21:00 - 21:29	00:46:09	2	-
09:30 - 09:59	04:19:29	6	1	21:30 - 21:59	00:14:49	1	-
10:00 - 10:29	02:33:48	6	1	22:00 - 22:29	01:46:40	2	-
10:30 - 10:59	01:22:35	3	1	22:30 - 22:59	00:13:29	1	-
11:00 - 11:29	02:07:29	4	1	23:00 - 23:29	01:11:37	1	-
11:30 - 11:59	01:44:31	6	1	23:30 - 23:59	00:01:28	2	1

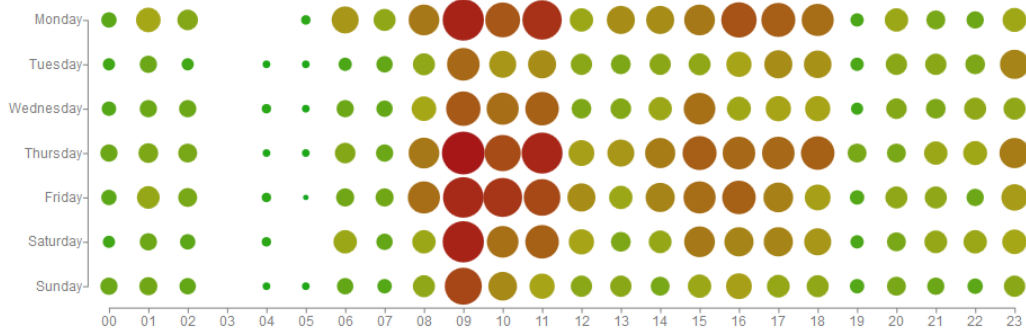
Busy Times

The Busy Times report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Busy Times report provides an hour-by-hour graphical representation of your call volumes for each day, giving a detailed breakdown of calls by type, for each time slot. This report is useful for identifying call traffic trends and can readily highlight your busiest periods, allowing you to more effectively plan your staffing requirements.



Call volumes by hour

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Monday	8	20	14	-	-	3	24	16	31	56	40	51	18	26	26	31	41	38	34	6	18	12	10	19
Tuesday	5	10	5	-	2	2	6	9	16	35	24	26	15	13	15	16	21	26	25	6	15	15	13	28
Wednesday	7	10	10	-	3	2	10	9	20	39	34	37	13	14	18	33	19	21	21	5	14	13	16	16
Thursday	10	13	12	-	2	2	14	10	31	60	43	55	22	24	30	38	35	35	37	12	12	18	19	30
Friday	8	17	12	-	3	1	11	11	34	54	50	44	26	18	28	34	37	29	22	7	16	16	10	23
Saturday	5	10	8	-	3	-	18	9	18	56	33	37	21	13	17	31	28	28	24	6	12	17	18	20
Sunday	10	11	9	-	2	2	9	7	16	45	27	21	15	15	12	18	22	17	16	7	12	10	8	15
Total	53	91	70	-	15	12	92	71	166	345	251	271	130	123	146	201	203	194	179	49	99	101	94	151

Running the report

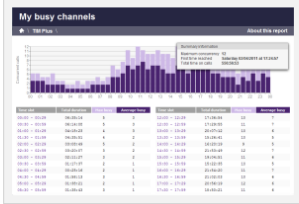
On the Reports screen, select the **Busy times** report from the left-hand pane and click the **Select this report** button.

TIMPLUS
Reports Directory Call view Live stats Tariff editor Settings Alerts

Reports

- Account summary
- Busy channels**
- Busy times
- Call analysis
- Call geography
- Call scoring
- Call volumes
- Custom report
- Daily activity
- Enterprise overview
- Frequent numbers
- Inbound call performance
- Missed calls
- Phone bill
- Random call selection
- Target response
- Top calls
- Unused devices
- User activity

Busy channels



Allows you to break down each business day into half-hour periods, showing the maximum and average number of telephone lines in use in any particular half-hour.

This report is ideal for determining whether or not you have enough lines, or if you have too many!

Running this report over longer periods increases the reliability of its results.

Select this report

A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period: ⓘ

From date:

To date:

From time:


To time:

- Yesterday
- Today
- Yesterday
- This week
- Last week
- This month
- Last month
- This year
- All calls
- Custom period

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own *Start date*, *Start time*, *End date* and *End time* of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		


Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
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User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	---













If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	<input type="text" value="0140"/>	
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To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
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Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.


Carrier	All carriers	
---------	--------------	---

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<input type="text" value="<2.00"/>	
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You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.


For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
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Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).


To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
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You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
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You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
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You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
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In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the `start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
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Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
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You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.


Selecting the report options


This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.

Options

Specify one or more of any additional report options shown here.


Exclude weekends 

Exclude transfers 

Ignore missed calls shorter than seconds 


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

Exclude weekends 


Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

Exclude transfers 

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter **3**.

Ignore missed calls shorter than seconds 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are **Web**, **PDF**, **Excel**, **CSV** and **XML**.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or [schedule it for future delivery](#).

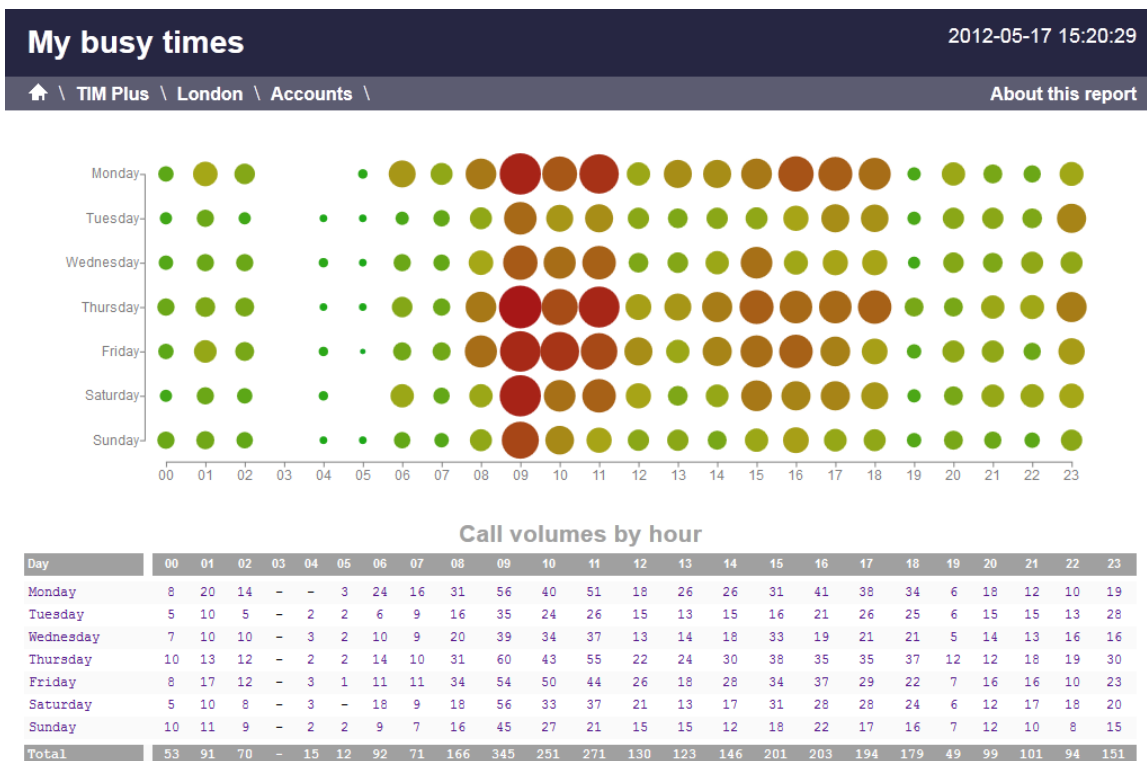
Your report is ready to run

Select the format that you want your report to be in. Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

The report's results

Below is an example of this report's output in web format, showing a graphical representation of calls grouped into time slots of one hour.



The large, dark red dots represent your busiest periods, whereas the small, green dots represent quieter periods; by hovering your cursor over a particular dot a tooltip will be displayed, showing the volume of calls for that dot's time period.

The time slot data is also displayed in tabular form, each value being a hyperlink which, if clicked, will drill down into a detailed list of calls for that time slot.

My busy times								2012-10-03 15:27:11
↑ \ TIM Plus \								About this report
All	Outbound	Answered	Missed	Internal	Show all			1 of 37
Date & Time ▲	Source	CLI	Route	Destination	Response	Duration	Cost	
2012-09-04 00:00:46	London	02070108072	-	Laura Thompson	-	00:00:10	-	
2012-09-04 00:00:56	Amanda Lynn	-	07957357127	T-Mobile	-	00:00:01	0.030	
2012-09-04 00:03:36	T-Mobile	07940367495	-	Louise Lucas	-	00:01:17	-	
2012-09-04 00:03:46	T-Mobile	07981955275	-	Winston Horn	-	00:01:37	-	
2012-09-04 00:03:51	London	02076636000	-	David Ellis	-	00:01:03	-	
2012-09-04 00:07:21	T-Mobile	07957584564	-	Matt Earley	-	00:01:41	-	
2012-09-04 00:09:26	O2	07714247647	-	Graham Manning	-	00:01:49	-	
2012-09-04 00:10:56	Vodafone	07825068611	-	Floyd Tomlinson	-	00:01:47	-	
2012-09-04 00:14:38	Vodafone	07775668307	-	Yu Woo	-	00:00:03	-	
2012-09-04 00:15:06	Vodafone	07747862786	-	Derek Smith	-	00:01:15	-	
2012-09-04 00:18:33	Orange	07967625420	-	Hannah Soras	-	00:04:01	-	
2012-09-04 00:19:13	London	02072293477	-	David Ellis	-	00:02:48	-	
2012-09-04 00:19:33	O2	07803831958	-	George Evans	-	00:00:01	-	
2012-09-04 00:20:13	Orange	07929200231	-	Edward James	-	00:02:47	-	
2012-09-04 00:20:23	Amanda Lynn	-	07939006896	T-Mobile	-	00:00:07	0.030	
2012-09-04 00:20:28	O2	07926262196	-	Dean Tomkins	-	00:00:07	-	
2012-09-04 00:21:38	London	02073878885	-	Holly Wood	-	00:00:01	-	
2012-09-04 00:27:43	T-Mobile	07950488657	-	Alastair Burnett	-	00:00:16	-	
2012-09-04 00:28:43	1081	-	07961150000	T-Mobile	-	00:00:09	0.030	
2012-09-04 00:28:51	London	02072843500	-	Ricardo De Souza	-	00:01:34	-	
2012-09-04 00:33:01	Vodafone	07901750601	-	Floyd Tomlinson	-	00:01:44	-	
2012-09-04 00:34:36	Vodafone	07717530155	-	Natt Chen	-	00:03:24	-	
2012-09-04 00:34:56	Vodafone	07767777666	-	Sally Gansa	-	00:01:16	-	
2012-09-04 00:35:36	Vodafone	07825041492	-	Floyd Tomlinson	-	00:01:02	-	
2012-09-04 00:38:03	Hutchison 3G	07723054591	-	Jack Garrett	-	00:02:55	-	
2012-09-04 00:38:31	London	02072528275	-	Sam Thornton	-	00:00:07	-	
2012-09-04 00:39:36	UNAVAILABLE	-	-	Pete Moore	-	00:00:45	-	
2012-09-04 00:42:13	UNAVAILABLE	-	-	Prakash Pindoria	-	00:00:53	-	
2012-09-04 00:45:21	Jack Garrett	-	07904034692	T-Mobile	-	00:00:53	0.115	

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. By clicking on the [About this report](#) link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:

↑ \ TIM Plus \ London \ Accounts \								About this report
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Call Analysis

The Call Analysis report

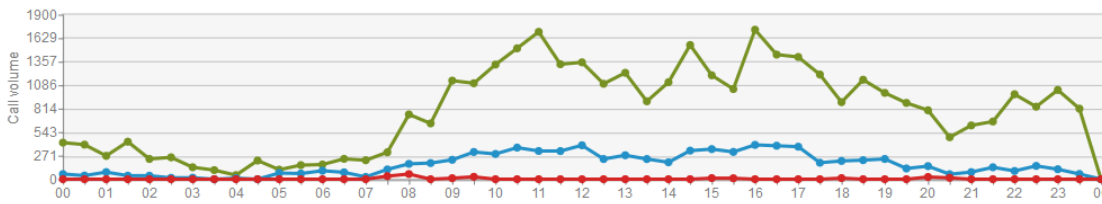
- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Call Analysis report breaks down your working day into half-hour segments, providing a clear graphical representation of your outbound, answered and abandoned calls. Call volumes are shown as *maximums* and *averages* which can help with staff planning.

My call analysis 2012-05-16 12:38:45

↑ \ TIM Plus \ London \ Accounts \
About this report



Time slot ▲	Missed			Answered				Outbound				Cost		
	Σ	Max	Avg	Σ	Ring time (s)	Max	Avg	Σ	Max	Avg	Total	Avg	Total	
00:00 - 00:29	-	-	-	426	11	-	00:07:34	00:01:28	60	00:00:32	00:00:11	00:11:45	0.036	2.171
00:30 - 00:59	-	-	-	403	-	-	00:09:26	00:01:35	42	00:00:53	00:00:23	00:16:47	0.057	2.406
01:00 - 01:29	-	-	-	272	-	-	00:07:57	00:01:34	83	00:02:31	00:00:29	00:41:18	0.073	6.051
01:30 - 01:59	-	-	-	437	-	-	00:05:19	00:01:23	41	00:00:35	00:00:13	00:09:29	0.039	1.615
02:00 - 02:29	-	-	-	236	10	-	00:08:02	00:01:30	41	00:00:34	00:00:14	00:10:02	0.039	1.592
02:30 - 02:59	-	-	-	255	4	-	00:03:30	00:01:05	16	00:02:06	00:01:10	00:18:54	0.155	2.476
03:00 - 03:29	-	-	-	139	-	-	00:04:43	00:01:29	18	00:00:11	00:00:06	00:01:50	0.030	0.540
03:30 - 03:59	-	-	-	106	-	-	00:09:51	00:01:16	-	-	-	-	-	-
04:00 - 04:29	-	-	-	47	8	1	00:01:35	00:00:43	13	00:00:34	00:00:13	00:03:01	0.038	0.490
04:30 - 04:59	-	-	-	218	19	2	00:06:12	00:00:51	-	-	-	-	-	-
05:00 - 05:29	-	-	-	111	25	2	00:06:33	00:01:20	72	00:02:25	00:00:29	00:35:17	0.073	5.276
05:30 - 05:59	-	-	-	164	8	1	00:11:33	00:01:33	66	00:00:49	00:00:14	00:15:26	0.040	2.628
06:00 - 06:29	-	-	-	171	25	2	00:05:11	00:01:10	99	00:00:35	00:00:09	00:16:21	0.033	3.290
06:30 - 06:59	-	-	-	237	13	-	00:05:14	00:01:10	80	00:00:34	00:00:10	00:13:58	0.034	2.696
07:00 - 07:29	-	-	-	221	25	1	00:06:54	00:01:29	27	00:00:29	00:00:13	00:06:07	0.038	1.029
07:30 - 07:59	36	51	16	314	39	2	00:03:31	00:00:52	114	00:26:48	00:02:24	04:33:49	0.149	16.997

Running the report

On the Reports screen, select the Call analysis report from the left-hand pane and click the **Select this report** button.

TIMPLUS

[Reports](#)
[Directory](#)
[Call view](#)
[Live stats](#)
[Tariff editor](#)
[Settings](#)
[Alerts](#)

Reports

- Account summary
- Busy channels
- Busy times
- Call analysis**
- Call geography
- Call scoring
- Call volumes
- Custom report
- Daily activity
- Enterprise overview
- Frequent numbers
- Inbound call performance
- Missed calls
- Phone bill
- Random call selection
- Target response
- Top calls
- Unused devices
- User activity

Call analysis

Breaks down your working day into half-hour segments and details important information about your calls. You get a clear graphical representation of how many outbound, answered and abandoned calls you've made.

Figures are shown as maximum and averages so you can more effectively plan your staffing requirements throughout each working day.

Select this report

A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

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Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period

From date

To date

From time

To time

Yesterday

Today

Yesterday

This week

Last week

This month

Last month

This year


All calls

Custom period

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own *Start date*, *Start time*, *End date* and *End time* of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
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Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	---













If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	<input type="text" value="0140"/>	
--------------	-----------------------------------	---

To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
-----------	-----------	---

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.


Carrier	All carriers	
---------	--------------	---

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.


For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).


To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the `start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---






You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.

Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options

Specify one or more of any additional report options shown here.

<input type="checkbox"/> Exclude weekends	
<input type="checkbox"/> Exclude transfers	
Sort order	<input type="text" value="Ascending"/> 
Sort results by	<input type="text" value="Time slot"/> 
Ignore missed calls shorter than	<input type="text" value="3"/> seconds 


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

<input checked="" type="checkbox"/> Exclude weekends	
--	--


Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

<input checked="" type="checkbox"/> Exclude transfers	
---	---


Sort order

Choose from the **sort order** drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order	<input type="text" value="Ascending"/>	
------------	--	---


Sort results by

To sort your report's results by a particular column, select it from the **sort results by** drop-down list.

Sort results by	<input type="text" value="Time slot"/>	
-----------------	--	---

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter **3**.

Ignore missed calls shorter than	<input type="text" value="3"/>	seconds	
----------------------------------	--------------------------------	---------	---

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are **Web**, **PDF**, **Excel**, **CSV** and **XML**.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or schedule it for future delivery.

Your report is ready to run

Select the format that you want your report to be in. Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Run now
Schedule for later

The report's results

Below is an example of this report's output in web format, displaying a breakdown of calls organised in half-hour time slots:

My call analysis
2012-05-16 12:38:45

↑ \ TIM Plus \ London \ Accounts \
About this report

Time slot ▲	Missed			Answered				Outbound				Cost		
	Σ	Max	Avg	Σ	Max	Avg	Max	Avg	Σ	Max	Avg	Total	Avg	Total
00:00 - 00:29	-	-	-	426	11	-	00:07:34	00:01:28	60	00:00:32	00:00:11	00:11:45	0.036	2.171
00:30 - 00:59	-	-	-	403	-	-	00:09:26	00:01:35	42	00:00:53	00:00:23	00:16:47	0.057	2.406
01:00 - 01:29	-	-	-	272	-	-	00:07:57	00:01:34	83	00:02:31	00:00:29	00:41:18	0.073	6.051
01:30 - 01:59	-	-	-	437	-	-	00:05:19	00:01:23	41	00:00:35	00:00:13	00:09:29	0.039	1.615
02:00 - 02:29	-	-	-	236	10	-	00:08:02	00:01:30	41	00:00:34	00:00:14	00:10:02	0.039	1.592
02:30 - 02:59	-	-	-	255	4	-	00:03:30	00:01:05	16	00:02:06	00:01:10	00:18:54	0.155	2.476
03:00 - 03:29	-	-	-	139	-	-	00:04:43	00:01:29	18	00:00:11	00:00:06	00:01:50	0.030	0.540
03:30 - 03:59	-	-	-	106	-	-	00:09:51	00:01:16	-	-	-	-	-	-
04:00 - 04:29	-	-	-	47	8	1	00:01:35	00:00:43	13	00:00:34	00:00:13	00:03:01	0.038	0.490
04:30 - 04:59	-	-	-	218	19	2	00:06:12	00:00:51	-	-	-	-	-	-
05:00 - 05:29	-	-	-	111	25	2	00:06:33	00:01:20	72	00:02:25	00:00:29	00:35:17	0.073	5.276
05:30 - 05:59	-	-	-	164	8	1	00:11:33	00:01:33	66	00:00:49	00:00:14	00:15:26	0.040	2.628
06:00 - 06:29	-	-	-	171	25	2	00:05:11	00:01:10	99	00:00:35	00:00:09	00:16:21	0.033	3.290
06:30 - 06:59	-	-	-	237	13	-	00:05:14	00:01:10	80	00:00:34	00:00:10	00:13:58	0.034	2.696
07:00 - 07:29	-	-	-	221	25	1	00:06:54	00:01:29	27	00:00:29	00:00:13	00:06:07	0.038	1.029
07:30 - 07:59	36	51	16	314	39	2	00:03:31	00:00:52	114	00:26:48	00:02:24	04:33:49	0.149	16.997

By clicking on the **About this report** link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. The headers of this report are as follows:

Header	Description
--------	-------------

Time slot	The time period to which the other headers' results relate.
Missed	<ul style="list-style-type: none"> ▪ Σ: The total number of missed calls. ▪ Max: The maximum length of time a caller waited before abandoning the call (in seconds). ▪ Avg: The average length of time a caller waited before abandoning the call (in seconds).
Answered	<ul style="list-style-type: none"> ▪ Σ: The total number of answered calls. ▪ Ring time Max: The maximum length of time a caller waited before a call was answered (in seconds). ▪ Ring time Avg: The average length of time a caller waited before the call was answered (in seconds). ▪ Duration Max: The duration of the longest answered call (in hours, mins, secs). ▪ Duration Avg: The average length of all answered calls (in hours, mins, secs).
Outbound	<ul style="list-style-type: none"> ▪ Σ: The total number of outbound calls. ▪ Duration Max: The duration of the longest outbound call (in hours, mins, secs). ▪ Duration Avg: The average length of all outbound calls (in hours, mins, secs). ▪ Duration Total: The total duration of time spent on outbound calls. ▪ Cost Avg: The average cost of all outbound calls. ▪ Cost Total: The total cost of all outbound calls.

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Call Geography

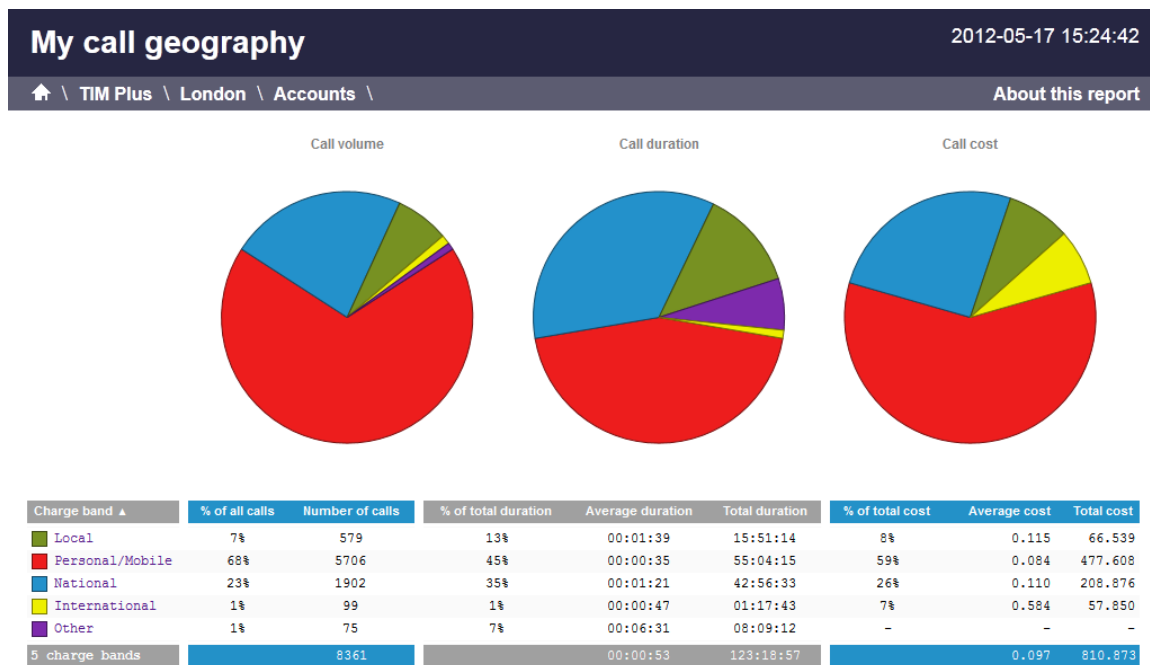
The Call Geography report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Call Geography report consists of three pie charts, each showing call information grouped by volume, duration and cost. An accompanying table is also shown, containing details of where - geographically - your calls are made, classified by their tariff band, such as local, national, mobile or international.

The proportion of calls to each geographical destination is shown in terms of volume, duration and cost, highlighting the calls that are costing you the most and taking up most of your time.



Running the report

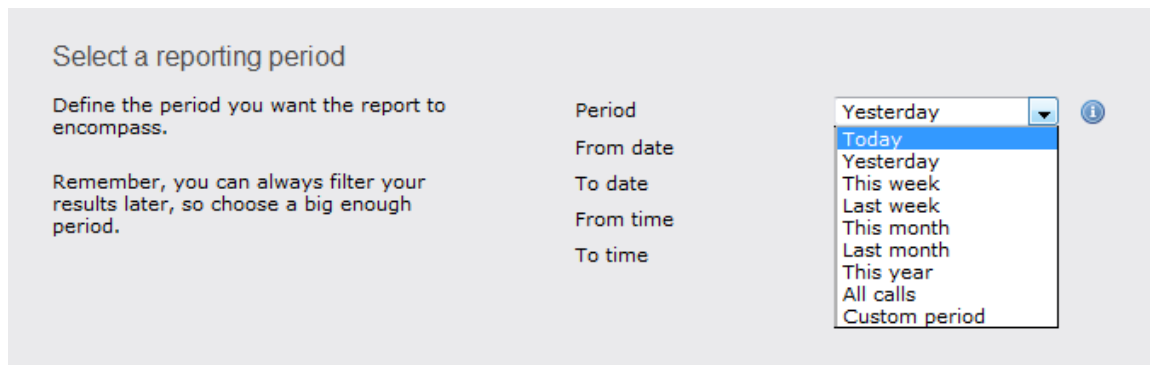
On the Reports screen, select the Call geography report from the left-hand pane and click the Select this report button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".




There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.

Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		


Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group


If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User 













 If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	<input type="text" value="All calls"/>		Duration	<input type="text"/>	
Carrier	<input type="text" value="(All carriers)"/>		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code 

To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.

Call type 

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier 

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on

all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.


For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).


To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code


To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the `-` symbol and; to specify limits, use the comparison operators, `>`, `<`, and `!`.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the `hh:mm:ss` format.

For example, to include only calls that began after 10 am, you could enter `10:00:00` in the `Start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---






You can use the `!` symbol to explicitly exclude a trunk access code from the report's results, and/or the `*` symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the `9` trunk access code, you could enter `!9`. To report on more than one trunk access code, use a comma to separate each entry.

Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.

Options

Specify one or more of any additional report options shown here.

<input checked="" type="checkbox"/>	Exclude weekends	
<input checked="" type="checkbox"/>	Exclude transfers	
Sort order	<input type="text" value="Ascending"/>	
Sort results by	<input type="text" value="Charge band"/>	
Ignore missed calls shorter than	<input type="text" value="3"/> seconds	


Exclude weekends

To exclude weekend calls from your report's results, select the `Exclude weekends` option.

<input checked="" type="checkbox"/>	Exclude weekends	
-------------------------------------	------------------	---

Exclude transfers

To exclude transferred calls from your report's results, select the `Exclude transfers` option.

<input checked="" type="checkbox"/>	Exclude transfers	
-------------------------------------	-------------------	---

Sort order

Choose from the `Sort order` drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order	<input type="text" value="Ascending"/>	
------------	--	---


Sort results by

To sort your report's results by a particular column, select it from the `Sort results by` drop-down list.

Sort results by 

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter 3 .

Ignore missed calls shorter than seconds 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are Web, PDF, Excel, CSV and XML.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or schedule it for future delivery.

Your report is ready to run

Select the format that you want your report to be in. Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

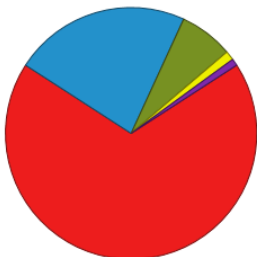
The report's results

Below is an example of this report's output in web format:

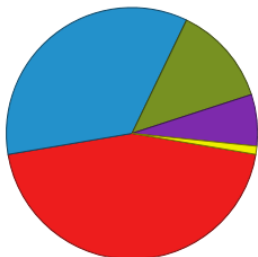
My call geography 2012-05-17 15:24:42

[Home](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \ [About this report](#)

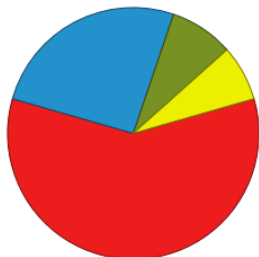
Call volume



Call duration



Call cost



Charge band ▲	% of all calls	Number of calls	% of total duration	Average duration	Total duration	% of total cost	Average cost	Total cost
■ Local	7%	579	13%	00:01:39	15:51:14	8%	0.115	66.539
■ Personal/Mobile	68%	5706	45%	00:00:35	55:04:15	59%	0.084	477.608
■ National	23%	1902	35%	00:01:21	42:56:33	26%	0.110	208.876
■ International	1%	99	1%	00:00:47	01:17:43	7%	0.584	57.850
■ Other	1%	75	7%	00:06:31	08:09:12	-	-	-
5 charge bands		8361		00:00:53	123:18:57		0.097	810.873

The final report consists of three pie charts and a table.

Pie charts

- The left-hand pie chart shows the amount of calls to each location
- The centre chart shows the time spent on calls to each location
- The right-hand chart shows the cost of calls to each location

Table

The table shows the following information about the calls made to each charge band location:

Header	Description
Charge band	The charge band, e.g. Local, National, International, Mobile, etc. Each listed charge band is click-able, allowing you to drill-down to see which site, department or user made calls to that charge band location.
% of calls	The number of calls per charge band location as a percentage of the total calls made. To reorder, click on the header to alternate between descending and ascending.
Number of calls	The total volume of calls made to each charge band location.
% of total duration	The total duration of calls made to each charge band location, expressed as a percentage of all charge bands.
Average duration	The average duration spent on calls to the corresponding charge band.
Total duration	The total amount of time spent on calls to the corresponding charge band.
% of total cost	The total cost of all calls made to each charge band location, expressed as a percentage of the total cost of all calls.
Average cost	The average cost of calls made to each charge band location.
Total cost	The total cost of calls made to each charge band location.

The summary line at the foot of the table shows the total number of calls included in the report, the total duration of calls, average and total costs.

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The **web** format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. By clicking on the **About this report** link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Call Scoring

The Call Scoring report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Call Scoring report provides a comprehensive analysis of previously-scored calls, enabling you to more efficiently assess the performance of your staff. TIM Plus gives you the option to create your own score cards, so you can specifically rate any call according to a set of custom evaluation criteria.

The scores can be based on any combination of questions whose answers are of the following type:

- Yes/No
- A value range
- Multiple choice

All questions are summarised in a clear, easy-to-understand format and are displayed separately, grouped into their respective categories.

My call scoring
2012-05-17 15:26:58

🏠 \ TIM Plus \
About this report

TIM Plus

Did the customer place an order?
(3 scores)

Placed order	33%	
Booked demonstration	33%	
Requested more information	33%	
Not interested	-	

How well did the agent address customer needs?
(3 scores)

Min	Average	Max
5	8.33	10
Based on 3 scores		

How well did the agent understand customer's requirements?
(3 scores)

Min	Average	Max
4	8	10
Based on 3 scores		

Rate the agent overall
(3 scores)

Excellent	100%
Very good	-
Good	-
Average	-
Below average	-
Bad	-

Was the agent friendly and helpful?
(3 scores)

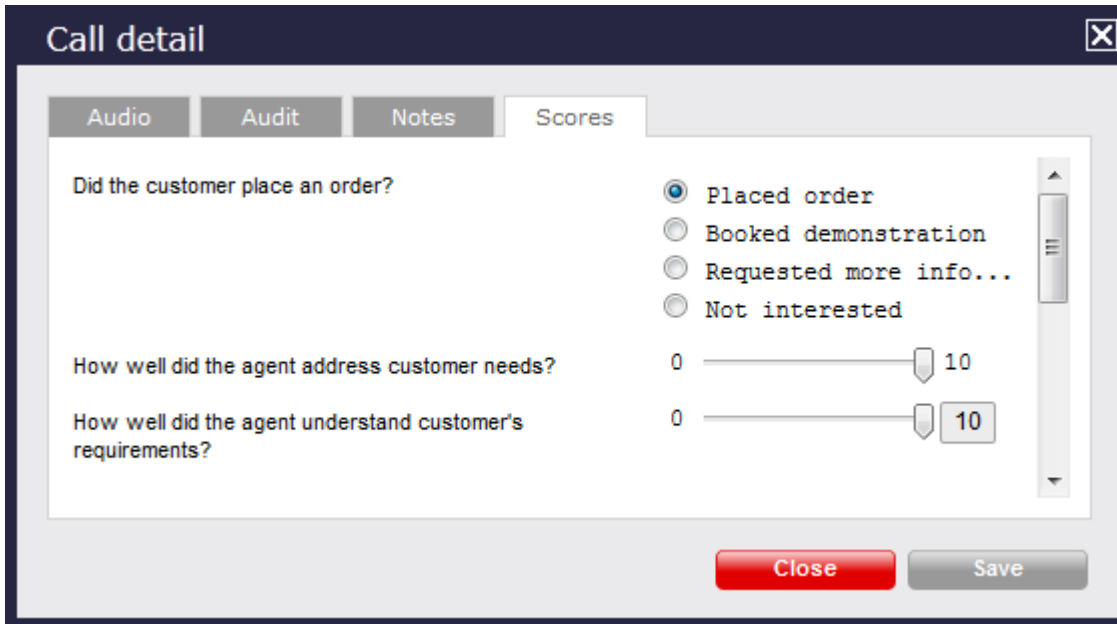
Yes	67%
No	33%

Was the call answered quickly?
(3 scores)

Yes	100%
No	-

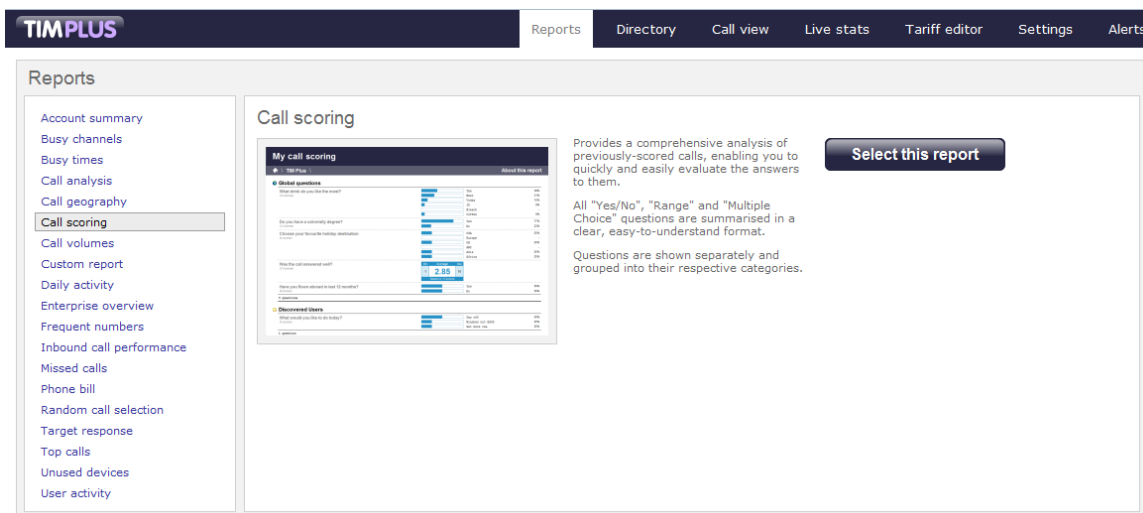
6 questions

An example of a scoring card can be seen below:



Running the report

On the Reports screen, select the Call scoring report from the left-hand pane and click the **Select this report** button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period


For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".



There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.

Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity

Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	--

Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	--

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	--

If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:


Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Call type

This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.


<input type="text"/>

Call type	All calls	
-----------	-----------	---

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	02072652600	
-----	-------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	0033	
----------------	------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	>1800	
----------	-------	--

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.




In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.

Options

Specify one or more of any additional report options shown here.

- Exclude weekends 
- Exclude transfers 
- Hide unused 


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

<input checked="" type="checkbox"/> Exclude weekends 
--

Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

<input checked="" type="checkbox"/> Exclude transfers 

Hide unused

To exclude unused extensions from your report's results, select the **Hide unused** option.

Hide unused i

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are Web, PDF, Excel, CSV and XML.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in. Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Run now

Schedule for later

The report's results

Below is an example of this report's output in web format:

My call scoring 2012-05-17 15:26:58

[↑](#) \ TIM Plus \ About this report

TIM Plus

Did the customer place an order?
(3 scores)

<div style="width: 33%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Placed order 33%
<div style="width: 33%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Booked demonstration 33%
<div style="width: 33%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Requested more information 33%
<div style="width: 0%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Not interested -

How well did the agent address customer needs?
(3 scores)

Min	Average	Max
5	8.33	10
Based on 3 scores		

How well did the agent understand customer's requirements?
(3 scores)

Min	Average	Max
4	8	10
Based on 3 scores		

Rate the agent overall
(3 scores)

<div style="width: 100%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Excellent 100%
<div style="width: 0%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Very good -
<div style="width: 0%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Good -
<div style="width: 0%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Average -
<div style="width: 0%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Below average -
<div style="width: 0%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Bad -

Was the agent friendly and helpful?
(3 scores)

<div style="width: 67%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Yes 67%
<div style="width: 33%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	No 33%

Was the call answered quickly?
(3 scores)

<div style="width: 100%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	Yes 100%
<div style="width: 0%; height: 10px; background-color: #0070c0; border: 1px solid #ccc;"></div>	No -

6 questions

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. By clicking on the [About this report](#) link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

As with all reports produced by TIM Plus, each page of the report includes the following information:

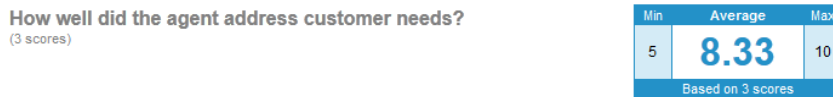
- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The results of the call scoring report will vary depending on the type of questions used to create your score cards:

Yes/No questions show their answers as two bars, each indicating the proportion of total answers.



Range questions show the minimum and maximum scores, as well as the average score.



Multiple choice questions show each possible answer as a percentage of the total number of answers.



To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Call Volumes

The Call Volumes report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Call Volumes report gives you a complete picture of your call volumes organised by site, group or user. It provides a clear, graphical and tabular representation of your outbound, answered and abandoned calls, broken down into hourly time slots. Internal and external calls are itemised separately and every value can be toggled between a percentage or a number. Additionally, all of the displayed values are shown as hyperlinks, allowing you to drill down further into the results.

My call volumes
2012-05-17 15:37:04

[Home](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \

About this report

Graph | Details | Summary

■ Answered | ■ Outbound | ■ Missed

[Show values](#) | [percentages](#)

Name ▲	Total			Timeslots
	Σ	External	Internal	
Al Dente	2532	2077	455	
	1309	852	457	
Anna Beck	497	226	271	
	333	305	28	
Anna Ruben	341	288	53	
	86	86	-	
Anna Savalas	7613	6931	682	
	52	52	-	
	1488	648	840	
Annette Curtain	6165	5851	314	
	221	221	-	
	1597	1221	376	
Bea Caws	8041	7849	192	
	93	93	-	
	1064	709	355	

Running the report

On the Reports screen, select the Call volumes report from the left-hand pane and click the **Select this report** button.

TIMPLUS
Reports
Directory
Call view
Live stats
Tariff editor
Settings
Alerts

Reports

- Account summary
- Busy channels
- Busy times
- Call analysis
- Call geography
- Call scoring
- Call volumes
- Custom report
- Daily activity
- Enterprise overview
- Frequent numbers
- Inbound call performance
- Missed calls
- Phone bill
- Random call selection
- Target response
- Top calls
- Unused devices
- User activity

Call volumes

Get a complete picture of your call volumes by site, group or user.

This drill-able report provides a clear, graphical and tabular representation of your outbound, answered and abandoned calls, broken down into hourly blocks.

Internal and external calls are itemised separately and every value can be shown as either a percentage or a number.

Select this report

A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period

From date

To date

From time

To time

Yesterday

Today

Yesterday

This week

Last week

This month

Last month

This year

All calls

Custom period

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own *Start date*, *Start time*, *End date* and *End time* of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	---













If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	<input type="text" value="0140"/>	
--------------	-----------------------------------	---

To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
-----------	-----------	---

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.


Carrier	All carriers	
---------	--------------	---

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the `start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---


You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.


Selecting the report options


This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options


Specify one or more of any additional report options shown here.

Exclude weekends 

Show unconnected calls 


Hide unused 

Sort order 

Sort results by 


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

<input checked="" type="checkbox"/> Exclude weekends 
--


Show unconnected calls

To show unconnected calls in your report results, select the **Show unconnected calls** option:

<input checked="" type="checkbox"/> Show unconnected calls 
--

Hide unused

To exclude unused extensions from your report's results, select the **Hide unused** option.

<input checked="" type="checkbox"/> Hide unused 


Sort order

Choose from the **sort order** drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order	<input type="text" value="Ascending"/>	
------------	--	---

Sort results by

To sort your report's results by a particular column, select it from the **sort results by** drop-down list.

Sort results by	<input type="text" value="Name"/>	
-----------------	-----------------------------------	---

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are **Web**, **PDF**, **Excel**, **CSV** and **XML**.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or schedule it for future delivery.

Your report is ready to run

Select the format that you want your report to be in. Report format:

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Run now
Schedule for later

The report's results

Below is an example of this report's output in web format:

My call volumes 2012-05-17 15:37:04

[Home](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \ [About this report](#)

Graph
Details
Summary

■ Answered ■ Outbound
■ Missed [Show values](#) | [percentages](#)

Name ▲	Total			Timeslots
	Σ	External	Internal	
Al Dente	2532	2077	455	
	-	-	-	
	1309	852	457	
Anna Beck	497	226	271	
	-	-	-	
	333	305	28	
Anna Ruben	341	288	53	
	86	86	-	
	388	354	34	
Anna Savalas	7613	6931	682	
	52	52	-	
	1488	648	840	
Annette Curtain	6165	5851	314	
	221	221	-	
	1597	1221	376	
Bea Caws	8041	7849	192	
	93	93	-	
	1064	709	355	

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. To view details of any filters or parameters used in creating this report, click on **About this report** at the top-right corner of the page.

The report is divided into three sections: **Graph**, **Details** and **Summary**.

Graph

The **Graph** tab provides a visual representation of all inbound, outbound and missed calls for both external and internal call activity. A simple toggle button at the top right of the screen enables you to flip between call volumes and percentages.

My call volumes 2012-05-17 15:37:04

Home \ TIM Plus \ London \ Accounts \ About this report

Graph | Details | Summary Show values | [percentages](#)

■ Answered ■ Outbound
■ Missed

Name ▲	Total			Timeslots
	Σ	External	Internal	
Al Dente	2532	2077	455	
	1309	852	457	

Details

The **Details** tab shows the actual volumes (or percentages) of calls for each time slot throughout the day.

My call volumes 2012-10-04 12:44:50

Home \ TIM Plus \ London \ Accounts Admin \ About this report

Graph | Details | Summary Show values | [percentages](#)

■ Answered ■ Outbound
■ Missed

Name	Total			Timeslots													
	Σ	External	Internal	05	06	07	08	09	10	11	12	13	14	15	16	17	18
Al Dente	360	151	209	-	-	-	-	-	40	76	-	-	-	52	49	85	58
	145	145	-	-	-	-	-	-	70	31	17	-	-	-	12	-	15
Andrew Montgomery	122	60	62	-	-	-	-	-	-	-	-	15	11	62	19	15	-
	99	85	14	16	-	-	-	-	-	-	-	-	-	14	-	17	52
Barbara Seville	15	15	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-
	39	39	-	-	-	-	-	-	-	-	15	24	-	-	-	-	-
Misty Waters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	36	14	-	-	-	-	36	-	-	-	-	-	14	-	-	-
4 items	830	531	299	16	-	-	-	36	110	122	32	39	25	128	80	117	125

All numeric figures are shown as hyperlinks, allowing you to drill down into an itemised list of the calls that they represent.

My call volumes 2012-10-04 12:48:19

Home \ TIM Plus \ London \ Accounts \ About this report

All | Outbound | Answered | Missed | Internal Show all | 1 of 19

Date & Time ▲	Source	CLI	Route	Destination	Response	Duration	Cost
24/09/2012 13:15:26	London	02073536734	-	Norma Leigh	-	00:00:40	-
24/09/2012 13:15:36	Vodafone	07775872259	-	Brock Lee	14	00:00:11	-
24/09/2012 13:19:33	Pearl E White	-	07810669018	Vodafone	-	00:00:25	0.054
24/09/2012 13:27:48	Penny Wise	-	07841401258	O2	-	00:02:28	0.321
24/09/2012 13:38:38	Pearl E White	-	02071051229	London	-	00:00:33	0.055
24/09/2012 13:49:33	London	02087729999	-	Brock Lee	10	00:01:06	-
24/09/2012 13:56:33	Penny Wise	-	2054	Harry Patel	-	00:00:31	-
24/09/2012 14:01:51	Gaye Barr	-	07960425550	T-Mobile	-	00:00:04	0.030
24/09/2012 14:05:11	London	02071847559	-	Brock Lee	7	00:00:08	-
24/09/2012 14:10:31	London	02074956590	-	Brock Lee	10	00:00:06	-
24/09/2012 14:10:31	London	02074131490	-	Doug Hole	-	00:02:32	-
24/09/2012 14:18:01	Easton West	-	07760202596	Vodafone	-	00:00:09	0.030
24/09/2012 14:44:43	Orange	07973894927	-	Mika Stai	-	00:03:28	-
24/09/2012 14:44:46	Orange	07973894927	-	Mika Stai	2	00:01:09	-
24/09/2012 14:48:08	London	02078022337	-	Don Key	5	00:00:01	-
24/09/2012 15:02:38	Gene Poole	-	2071	Pearl E White	-	00:01:22	-

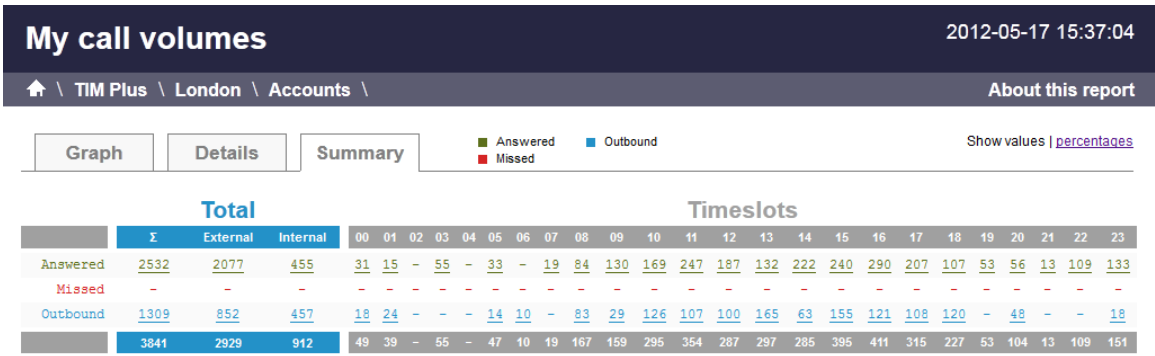
Below is a description of each table header:

Header	Description
--------	-------------

Date & Time	The date and time the call started
Source	The place from where the call originated
CLI	The telephone number of the remote caller for inbound calls
Route	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the CLI of the caller ▪ for incoming internal calls, this shows either the caller's username or extension number ▪ for outgoing calls, this shows the dialled number
Destination	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the name of the user whose extension answered the call, or the extension number if not available ▪ for outgoing calls, this shows the geographical location that was dialled, or an alias if defined in your contacts list ▪ for internal calls, this shows the extension that was dialled, enclosed in square brackets []
Response	The length of time it took for the call to be answered (i.e. the response time)
Duration	The duration of the call (in hours, minutes and seconds)
Cost	The cost of the call

Summary

The Summary tab shows a summary of all call activity for the reporting period you selected.



To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Custom

The Custom report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Custom report allows a wide range of options and filtering criteria to be selected, enabling you to search for very specific phone calls. The results are displayed as an itemised list, grouped by call type: **All**, **Outbound**, **Answered**, **Missed**, **Internal** and **Tandem**.

My custom report

2012-05-17 15:34:00

↑ \ TIM Plus \ London \ Accounts \

About this report

All		Outbound	Answered	Missed	Internal	Show all	1 of 16
Date & Time	Source	CLI	Route	Destination	Response	Duration	Cost
01/03/2012 00:07:53	Adam Zapel	-	07767254860	Vodafone	-	00:00:27	0.058
01/03/2012 00:20:23	Adam Zapel	-	07939041916	T-Mobile	-	00:00:04	0.030
01/03/2012 00:41:18	Adam Zapel	-	02074787000	London	-	00:00:08	0.030
01/03/2012 01:00:56	London	02070108086	-	Tom Morrow	-	00:01:03	-
01/03/2012 01:59:31	London	02079603334	-	Tom Morrow	-	00:02:10	-
01/03/2012 02:09:08	Orange	07968426619	-	Tom Morrow	-	00:01:35	-
01/03/2012 04:31:41	O2	07921668518	-	Tom Morrow	-	00:01:44	-
01/03/2012 06:03:28	Adam Zapel	-	07932040779	T-Mobile	-	00:00:10	0.030
01/03/2012 06:50:38	London	02086719759	-	Tom Morrow	-	00:00:40	-
01/03/2012 08:12:13	Orange	07971060111	-	Cheri Pitts	-	00:00:46	-
01/03/2012 08:17:11	London	02070152800	-	Cheri Pitts	-	00:00:21	-
01/03/2012 08:26:48	Adam Zapel	-	07949250374	T-Mobile	-	-	0.030
01/03/2012 08:43:41	Adam Zapel	-	07985980159	T-Mobile	-	00:00:13	0.030
01/03/2012 08:50:03	T-Mobile	07957503577	-	Cheri Pitts	-	00:06:37	-
01/03/2012 09:01:08	Adam Zapel	-	07788646633	Vodafone	-	00:00:18	0.039
01/03/2012 09:04:23	O2	07834585328	-	Tom Morrow	-	00:01:05	-
01/03/2012 09:10:51	London	02085103628	-	Tom Morrow	-	-	-
01/03/2012 09:12:56	Adam Zapel	-	07786276358	Vodafone	-	00:00:22	0.048
01/03/2012 09:14:48	Adam Zapel	-	07717514310	Vodafone	-	00:00:01	0.030
01/03/2012 09:20:46	London	02073511550	-	Tom Morrow	-	00:00:20	-
01/03/2012 09:26:43	UNAVAILABLE	-	-	Tom Morrow	-	00:01:09	-
01/03/2012 09:28:18	Vodafone	07796251027	-	Claire Annette	-	00:00:30	-
01/03/2012 09:29:18	London	02073368085	-	Tom Morrow	-	00:03:12	-
01/03/2012 09:42:38	Adam Zapel	-	02073076700	London	-	00:00:15	0.030
01/03/2012 09:43:26	London	02078227654	-	Tom Morrow	-	00:00:28	-
01/03/2012 09:50:01	London	02087402420	-	Claire Annette	-	00:02:34	-
01/03/2012 09:51:26	Tom Morrow	-	07944789366	T-Mobile	-	00:01:09	0.150
01/03/2012 09:57:51	UNAVAILABLE	-	-	Cheri Pitts	-	00:01:38	-
01/03/2012 10:05:16	O2	07739071992	-	Tom Morrow	-	-	-

Running the report

On the Reports screen, select Custom report from the left-hand pane and click the **Select this report** button.

TIMPLUS
Reports
Directory
Call view
Live stats
Tariff editor
Settings
Alerts

Reports

- Account summary
- Busy channels
- Busy times
- Call analysis
- Call geography
- Call scoring
- Call volumes
- Custom report
- Daily activity
- Enterprise overview
- Frequent numbers
- Inbound call performance
- Missed calls
- Phone bill
- Random call selection
- Target response
- Top calls
- Unused devices
- User activity

Custom report

My custom report

About this report

Date & Time	Source	CLI	Route	Destination	Response	Duration	Cost
01/03/2012 00:07:53	Adam Zapel	-	07767254860	Vodafone	-	00:00:27	0.058
01/03/2012 00:20:23	Adam Zapel	-	07939041916	T-Mobile	-	00:00:04	0.030
01/03/2012 00:41:18	Adam Zapel	-	02074787000	London	-	00:00:08	0.030
01/03/2012 01:00:56	London	02070108086	-	Tom Morrow	-	00:01:03	-
01/03/2012 01:59:31	London	02079603334	-	Tom Morrow	-	00:02:10	-
01/03/2012 02:09:08	Orange	07968426619	-	Tom Morrow	-	00:01:35	-
01/03/2012 04:31:41	O2	07921668518	-	Tom Morrow	-	00:01:44	-
01/03/2012 06:03:28	Adam Zapel	-	07932040779	T-Mobile	-	00:00:10	0.030
01/03/2012 06:50:38	London	02086719759	-	Tom Morrow	-	00:00:40	-
01/03/2012 08:12:13	Orange	07971060111	-	Cheri Pitts	-	00:00:46	-
01/03/2012 08:17:11	London	02070152800	-	Cheri Pitts	-	00:00:21	-
01/03/2012 08:26:48	Adam Zapel	-	07949250374	T-Mobile	-	-	0.030
01/03/2012 08:43:41	Adam Zapel	-	07985980159	T-Mobile	-	00:00:13	0.030
01/03/2012 08:50:03	T-Mobile	07957503577	-	Cheri Pitts	-	00:06:37	-
01/03/2012 09:01:08	Adam Zapel	-	07788646633	Vodafone	-	00:00:18	0.039
01/03/2012 09:04:23	O2	07834585328	-	Tom Morrow	-	00:01:05	-
01/03/2012 09:10:51	London	02085103628	-	Tom Morrow	-	-	-
01/03/2012 09:12:56	Adam Zapel	-	07786276358	Vodafone	-	00:00:22	0.048
01/03/2012 09:14:48	Adam Zapel	-	07717514310	Vodafone	-	00:00:01	0.030
01/03/2012 09:20:46	London	02073511550	-	Tom Morrow	-	00:00:20	-
01/03/2012 09:26:43	UNAVAILABLE	-	-	Tom Morrow	-	00:01:09	-
01/03/2012 09:28:18	Vodafone	07796251027	-	Claire Annette	-	00:00:30	-
01/03/2012 09:29:18	London	02073368085	-	Tom Morrow	-	00:03:12	-
01/03/2012 09:42:38	Adam Zapel	-	02073076700	London	-	00:00:15	0.030
01/03/2012 09:43:26	London	02078227654	-	Tom Morrow	-	00:00:28	-
01/03/2012 09:50:01	London	02087402420	-	Claire Annette	-	00:02:34	-
01/03/2012 09:51:26	Tom Morrow	-	07944789366	T-Mobile	-	00:01:09	0.150
01/03/2012 09:57:51	UNAVAILABLE	-	-	Cheri Pitts	-	00:01:38	-
01/03/2012 10:05:16	O2	07739071992	-	Tom Morrow	-	-	-

This is the most flexible report, allowing you to select any number of criteria on which to filter your results.

Results are returned in an itemised list, with each call type having its own section. The sections are 'answered', 'outbound', 'missed', 'internal' and 'tandem' calls.

Select this report

A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

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Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period

From date

To date

From time

To time

Yesterday

Today

Yesterday

This week

Last week

This month

Last month

This year


All calls

Custom period

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---

Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	---













If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	<input type="text" value="0140"/>	
--------------	-----------------------------------	---

To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
-----------	-----------	---

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.


Carrier	All carriers	
---------	--------------	---

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.


You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.


For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the `start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---









You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.


Selecting the report options


This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options

Specify one or more of any additional report options shown here.

- Exclude weekends 
- Exclude transfers 
- Show transfer legs 
- Don't replace numbers with contact names 
- Show account codes 
- Notes only 
- Audio only 
- Scored only 


Sort order 

Sort results by 

Ignore missed calls shorter than seconds 


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.


<input checked="" type="checkbox"/> Exclude weekends 
--

Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

<input checked="" type="checkbox"/> Exclude transfers 


Show transfer legs

To show the legs of transferred calls, click on the **Show transfer legs** option. A  icon will be displayed next to any call with associated call legs.

<input checked="" type="checkbox"/> Show transfer legs 
--

Don't replace numbers with contact names

Tick this option if you do not want to replace dialled numbers, CLIs and account codes with their associated names, as defined in your web user's contacts list.

<input checked="" type="checkbox"/> Don't replace numbers with contact names 
--

Show account codes


Select this option to display any associated account codes as an additional column in this report.

<input type="checkbox"/>

Show account codes 


Notes only

Tick this option if you want your search results to include only calls that have notes associated with them.

Notes only 


Audio only

Tick this option if you want your search results to include only calls that have an associated voice recording.

Audio only 


Scored only

Tick this option to include only calls that have a score associated with them, e.g. calls that have already been listened to and scored

Scored only 

Sort order

Choose from the `sort order` drop-down list whether you want the results of your report to appear in ascending or descending order.

Sort order 


Sort results by

To sort your report's results by a particular column, select it from the `sort results by` drop-down list.

Sort results by 

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter 3 .

Ignore missed calls shorter than seconds 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the `Run now` button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in. Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Run now

Schedule for later

The report's results

Below is an example of this report's output in web format:

My custom report								2012-05-17 15:34:00
Home \ TIM Plus \ London \ Accounts \ About this report								
All	Outbound	Answered	Missed	Internal	Show all 1 of 16			
Date & Time	Source	CLI	Route	Destination	Response	Duration	Cost	
01/03/2012 00:07:53	Adam Zapel	-	07767254860	Vodafone	-	00:00:27	0.058	
01/03/2012 00:20:23	Adam Zapel	-	07939041916	T-Mobile	-	00:00:04	0.030	
01/03/2012 00:41:18	Adam Zapel	-	02074787000	London	-	00:00:08	0.030	
01/03/2012 01:00:56	London	02070108086	-	Tom Morrow	-	00:01:03	-	
01/03/2012 01:59:31	London	02079603334	-	Tom Morrow	-	00:02:10	-	
01/03/2012 02:09:08	Orange	07968426619	-	Tom Morrow	-	00:01:35	-	
01/03/2012 04:31:41	O2	07921668518	-	Tom Morrow	-	00:01:44	-	
01/03/2012 06:03:28	Adam Zapel	-	07932040779	T-Mobile	-	00:00:10	0.030	
01/03/2012 06:50:38	London	02086719759	-	Tom Morrow	-	00:00:40	-	
01/03/2012 08:12:13	Orange	07971060111	-	Cheri Pitts	-	00:00:46	-	
01/03/2012 08:17:11	London	02070152800	-	Cheri Pitts	-	00:00:21	-	
01/03/2012 08:26:48	Adam Zapel	-	07949250374	T-Mobile	-	-	0.030	
01/03/2012 08:43:41	Adam Zapel	-	07985980159	T-Mobile	-	00:00:13	0.030	
01/03/2012 08:50:03	T-Mobile	07957503577	-	Cheri Pitts	-	00:06:37	-	
01/03/2012 09:01:08	Adam Zapel	-	07788646633	Vodafone	-	00:00:18	0.039	
01/03/2012 09:04:23	O2	07834585328	-	Tom Morrow	-	00:01:05	-	
01/03/2012 09:10:51	London	02085103628	-	Tom Morrow	-	-	-	
01/03/2012 09:12:56	Adam Zapel	-	07786276358	Vodafone	-	00:00:22	0.048	
01/03/2012 09:14:48	Adam Zapel	-	07717514310	Vodafone	-	00:00:01	0.030	
01/03/2012 09:20:46	London	02073511550	-	Tom Morrow	-	00:00:20	-	
01/03/2012 09:26:43	UNAVAILABLE	-	-	Tom Morrow	-	00:01:09	-	
01/03/2012 09:28:18	Vodafone	07796251027	-	Claire Annette	-	00:00:30	-	
01/03/2012 09:29:18	London	02073368085	-	Tom Morrow	-	00:03:12	-	
01/03/2012 09:42:38	Adam Zapel	-	02073076700	London	-	00:00:15	0.030	
01/03/2012 09:43:26	London	02078227654	-	Tom Morrow	-	00:00:28	-	
01/03/2012 09:50:01	London	02087402420	-	Claire Annette	-	00:02:34	-	
01/03/2012 09:51:26	Tom Morrow	-	07944789366	T-Mobile	-	00:01:09	0.150	
01/03/2012 09:57:51	UNAVAILABLE	-	-	Cheri Pitts	-	00:01:38	-	
01/03/2012 10:05:16	O2	07739071992	-	Tom Morrow	-	-	-	

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. By clicking on the [About this report](#) link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The report consists of a table containing an itemised list of the calls that matched your selection criteria. Each column header of the table is described below:

Header	Description
Date & Time	The date and time the call started
Source	The place from where the call originated

CLI	The telephone number of the remote caller for inbound calls
Route	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the CLI of the caller ▪ for incoming internal calls, this shows either the caller's username or extension number ▪ for outgoing calls, this shows the dialled number
Destination	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the name of the user whose extension answered the call, or the extension number if not available ▪ for outgoing calls, this shows the geographical location that was dialled, or an alias if defined in your contacts list ▪ for internal calls, this shows the extension that was dialled, enclosed in square brackets []
Response	The length of time it took for the call to be answered (e.g. the response time)
Duration	The duration of the call (in hours, minutes and seconds)
Cost	The cost of the call

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



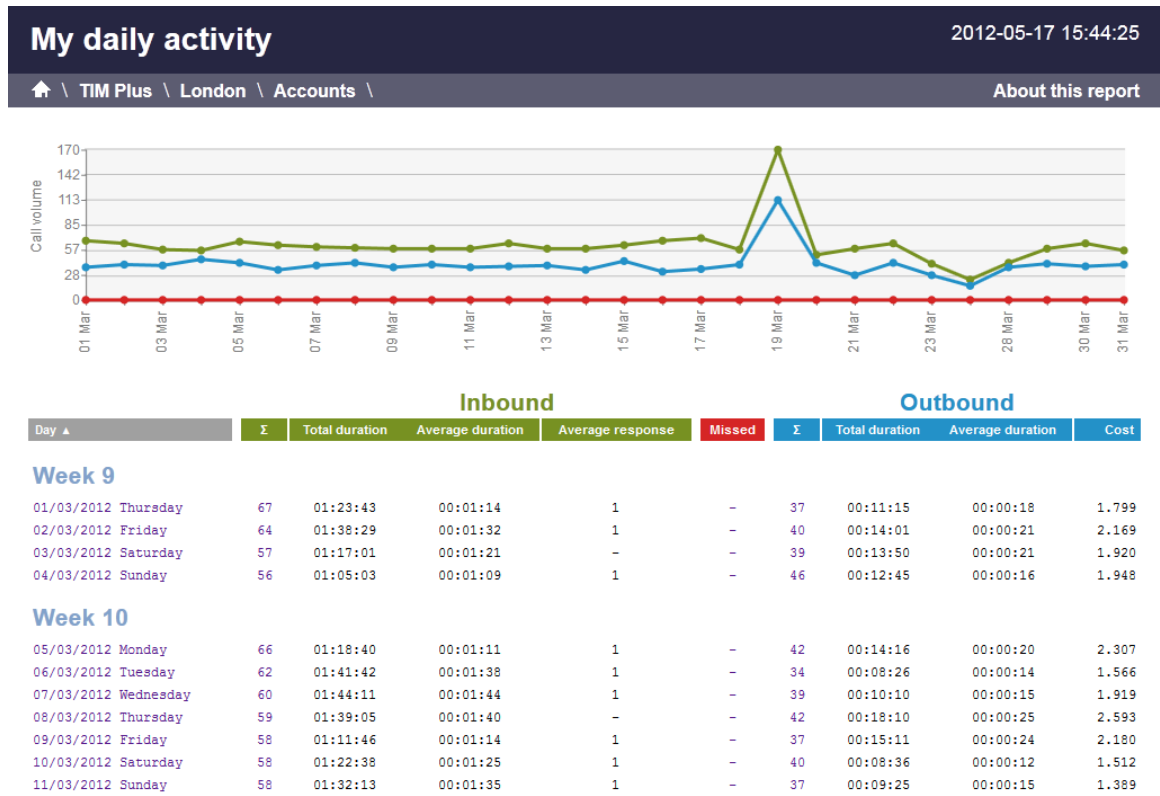
Daily Activity

The Daily Activity report

- Introduction
- Running the report
- Creating the report
- The report's results

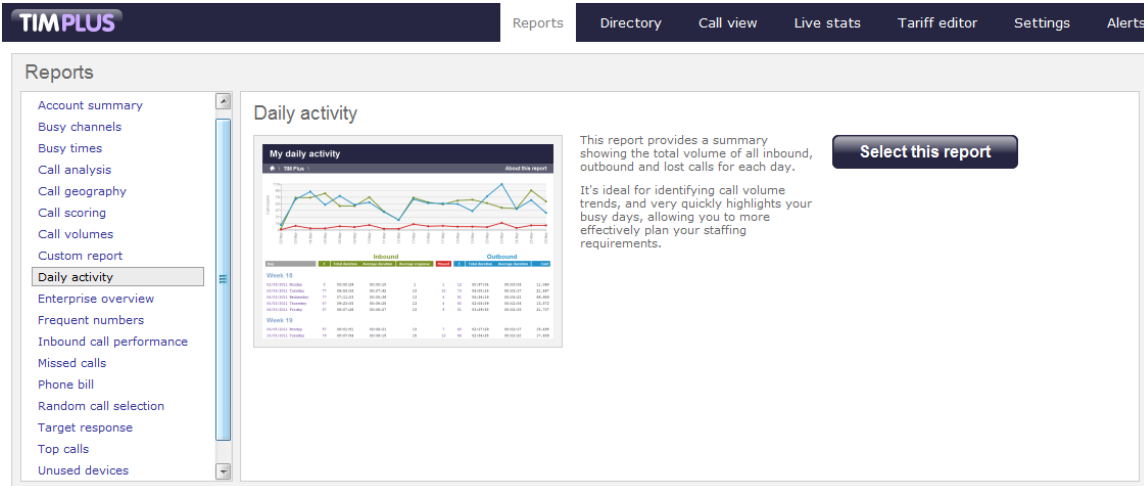
Introduction

The Daily Activity report provides a summary showing the volume of all inbound, outbound and missed calls for each day. It is useful for organisations whose call traffic fluctuates throughout the year because, by identifying your busiest periods, it allows you to more effectively plan your staffing requirements.



Running the report

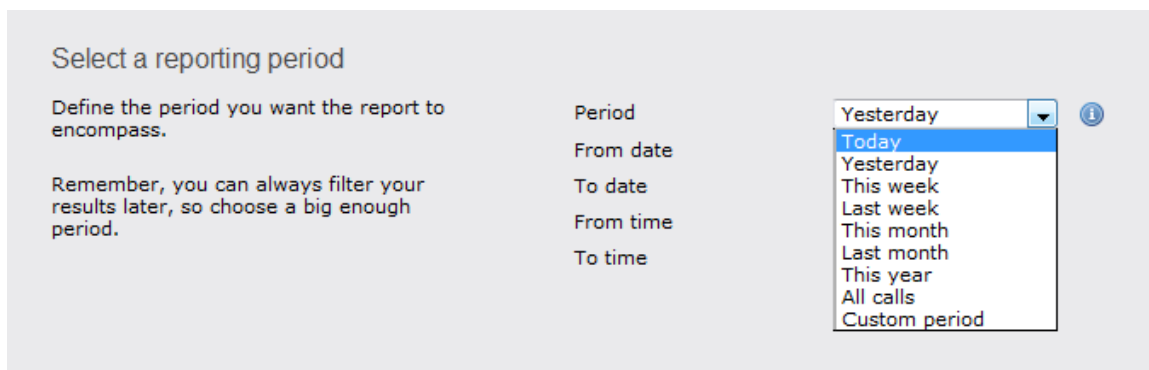
On the Reports screen, select the Daily activity report from the left-hand pane and click the Select this report button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".




There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.

Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		


Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group


If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User 













 If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	<input type="text" value="All calls"/>		Duration	<input type="text"/>	
Carrier	<input type="text" value="(All carriers)"/>		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code 

To report on more than one account code, separate each code using a comma.


Call type

This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal etc. To report on all types of call, set this to **All calls**.

Call type 

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier 

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on

all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:


Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.


For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).


To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
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You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code


To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the `-` symbol and; to specify limits, use the comparison operators, `>`, `<`, and `!`.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the `hh:mm:ss` format.

For example, to include only calls that began after 10 am, you could enter `10:00:00` in the `Start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
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You can use the `!` symbol to explicitly exclude a trunk access code from the report's results, and/or the `*` symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the `9` trunk access code, you could enter `!9`. To report on more than one trunk access code, use a comma to separate each entry.

Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.

Options

Specify one or more of any additional report options shown here.

<input type="checkbox"/>	Exclude weekends	
<input type="checkbox"/>	Exclude transfers	
Sort order	<input type="text" value="Ascending"/>	
Sort results by	<input type="text" value="Day"/>	
Ignore missed calls shorter than	<input type="text" value=""/>	seconds 


Exclude weekends

To exclude weekend calls from your report's results, select the `Exclude weekends` option.

<input checked="" type="checkbox"/>	Exclude weekends	
-------------------------------------	------------------	---

Exclude transfers

To exclude transferred calls from your report's results, select the `Exclude transfers` option.

<input checked="" type="checkbox"/>	Exclude transfers	
-------------------------------------	-------------------	---


Sort order

Choose from the `Sort order` drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order	<input type="text" value="Ascending"/>	
------------	--	---


Sort results by

To sort your report's results by a particular column, select it from the `Sort results by` drop-down list.

Sort results by 

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter 3 .

Ignore missed calls shorter than seconds 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are **Web**, **PDF**, **Excel**, **CSV** and **XML**.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in.

Report format

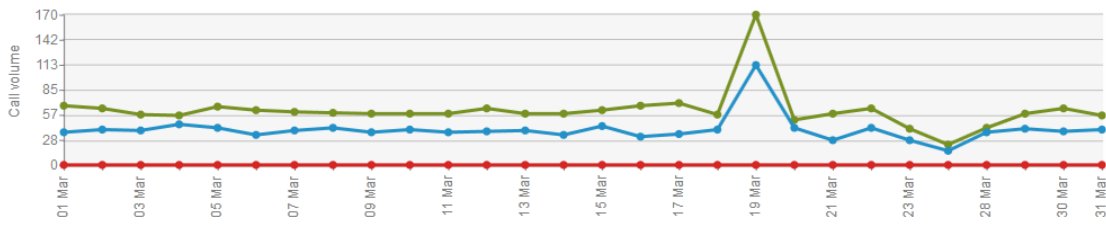
You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Run now

Schedule for later

The report's results

Below is an example of this report's output in **web** format, showing the total volume of all inbound, outbound and missed calls for each day.



Inbound						Outbound				
Day ▲	Σ	Total duration	Average duration	Average response	Missed	Σ	Total duration	Average duration	Cost	
Week 9										
01/03/2012 Thursday	67	01:23:43	00:01:14	1	-	37	00:11:15	00:00:18	1.799	
02/03/2012 Friday	64	01:38:29	00:01:32	1	-	40	00:14:01	00:00:21	2.169	
03/03/2012 Saturday	57	01:17:01	00:01:21	-	-	39	00:13:50	00:00:21	1.920	
04/03/2012 Sunday	56	01:05:03	00:01:09	1	-	46	00:12:45	00:00:16	1.948	
Week 10										
05/03/2012 Monday	66	01:18:40	00:01:11	1	-	42	00:14:16	00:00:20	2.307	
06/03/2012 Tuesday	62	01:41:42	00:01:38	1	-	34	00:08:26	00:00:14	1.566	
07/03/2012 Wednesday	60	01:44:11	00:01:44	1	-	39	00:10:10	00:00:15	1.919	
08/03/2012 Thursday	59	01:39:05	00:01:40	-	-	42	00:18:10	00:00:25	2.593	
09/03/2012 Friday	58	01:11:46	00:01:14	1	-	37	00:15:11	00:00:24	2.180	
10/03/2012 Saturday	58	01:22:38	00:01:25	1	-	40	00:08:36	00:00:12	1.512	
11/03/2012 Sunday	58	01:32:13	00:01:35	1	-	37	00:09:25	00:00:15	1.389	

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. By clicking on the [About this report](#) link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

The body of the report consists of a table showing a summary of your incoming and outgoing calls for each day during the period you selected. Each row shows the following information:

Header	Description
Day	The day of the week that the data covers
Inbound	<ul style="list-style-type: none"> ▪ Σ: The total volume of calls received ▪ Total duration: The total length of time spent on incoming calls ▪ Average duration: The average call duration of inbound calls ▪ Average response: The average length of time taken to answer a call ▪ Duration Avg: The average length of time a caller waited before abandoning the call (in hours, minutes, seconds)

<p>Missed</p>	<p>The missed calls column is always displayed as red. It allows you to re-order your details based on the total number of missed calls for the date shown.</p>
<p>Outbound</p>	<ul style="list-style-type: none"> ▪ Σ: The total volume of outbound calls ▪ Total duration: The total length of time spent on outbound calls ▪ Average duration: The average duration of outbound calls ▪ Cost: The total cost of all calls made, irrespective of each call's local currency

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:

↑ \ TIM Plus \ **London** \ Accounts \
About this report

Enterprise Overview

The Enterprise Overview report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Enterprise Overview report is an interactive, click-able report, showing call summaries for each type of call - inbound, outbound and missed. The report is useful for comparing call statistics between different parts of your organisation and allows you to drill-down into each value to see the same call information for subsequent groups or users. Totals, maximums and averages are displayed at the foot of each column.

My enterprise overview
2012-05-17 15:47:00

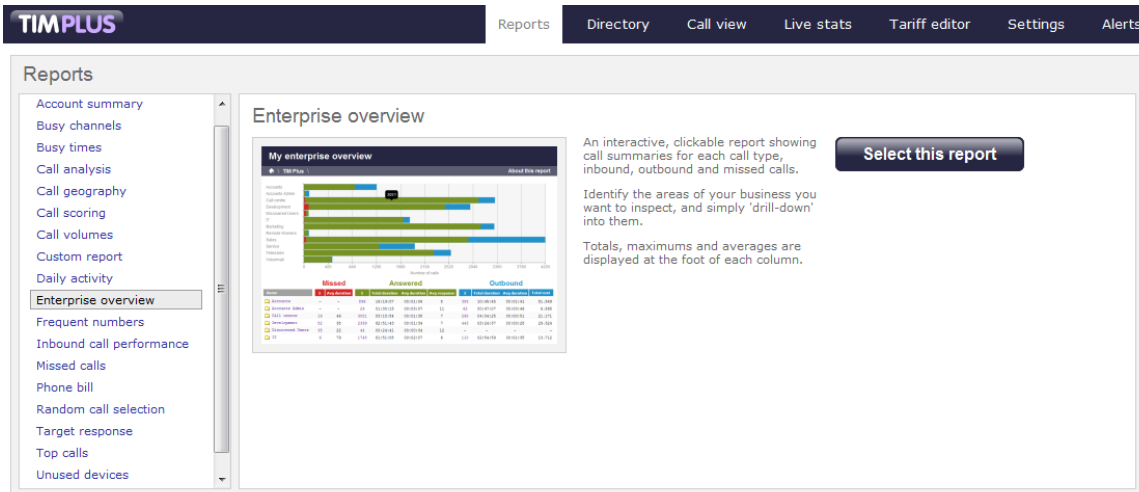
↑ \ TIM Plus \
About this report

Number of calls

Name ▲	Missed			Answered			Outbound			
	Σ	Avg duration	Σ	Total duration	Avg duration	Avg response	Σ	Total duration	Avg duration	Total cost
Aberdeen	-	-	2662	75:16:34	00:01:42	3	755	16:38:29	00:01:19	96.247
Birmingham	12	1	286	15:05:56	00:03:10	10	437	02:48:13	00:00:23	24.367
London	118	40	5090	95:59:36	00:01:08	5	4402	56:31:38	00:00:46	385.087
Manchester	-	-	1990	35:27:59	00:01:04	2	623	14:58:11	00:01:27	45.388
Newcastle	-	-	12776	399:34:51	00:01:53	-	767	10:22:45	00:00:49	103.552
5 items	130	41	39003	1068:01:31	00:08:39	20	8361	123:18:57	00:00:53	810.873

Running the report

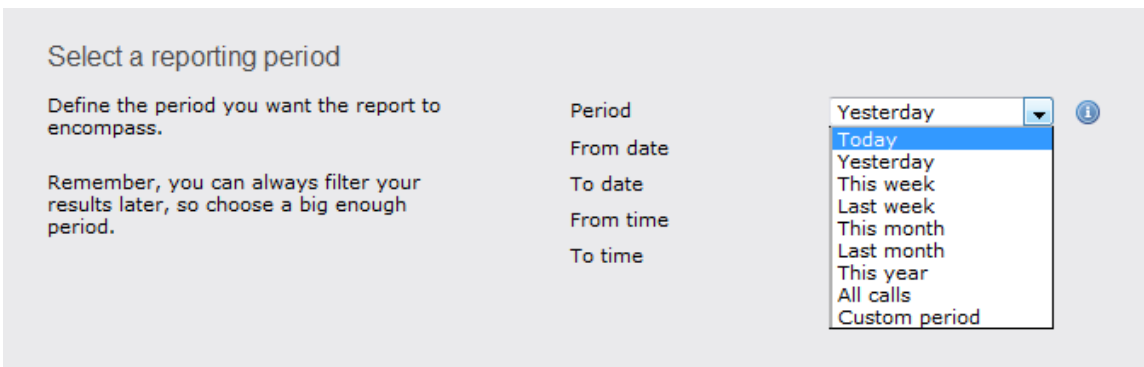
On the Reports screen, select the Enterprise overview report from the left-hand pane and click the **Select this report** button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".




There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.

This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		


Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group


If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.













User	All users	
------	-----------	---

 If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report					
Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code

To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	0140	
--------------	------	---

To report on more than one account code, separate each code using a comma.

Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
-----------	-----------	---

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier	All carriers	
---------	--------------	---

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning 162, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the - symbol and; to specify limits, use the comparison operators, >, <, and ! .

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the **start time** field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---




You can use the ! symbol to explicitly exclude a trunk access code from the report's results, and/or the * symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the 9 trunk access code, you could enter !9. To report on more than one trunk access code, use a comma to separate each entry.


Selecting the report options


This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options

Specify one or more of any additional report options shown here.

- Exclude weekends 
- Exclude transfers 
- Hide unused 


Sort order: 

Sort results by: 

Ignore missed calls shorter than seconds 


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

<input checked="" type="checkbox"/> Exclude weekends 
--


Exclude transfers


To exclude transferred calls from your report's results, select the **Exclude transfers** option.

<input checked="" type="checkbox"/> Exclude transfers 

Hide unused


To exclude unused extensions from your report's results, select the **Hide unused** option.

<input type="checkbox"/> Hide unused 
--

Hide unused 


Sort order

Choose from the `sort order` drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order 


Sort results by

To sort your report's results by a particular column, select it from the `sort results by` drop-down list.

Sort results by 

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter 3 .

Ignore missed calls shorter than seconds 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the `Run now` button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in.

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Report format

The report's results

The results of the report show a summary of call volumes - organised by call type - for the report entity you selected. By clicking on the `About this report` link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

As with all reports produced by TIM Plus, each page of the report includes the following information:

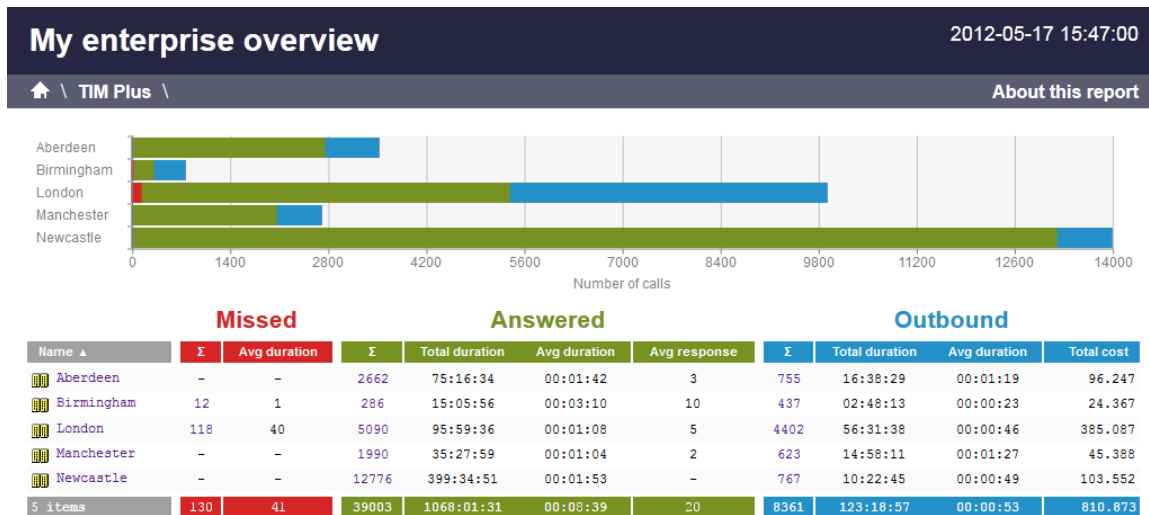
- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The `Web` format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results.

The `Web` format allows you to see the results of the report at different organisational levels: site level, group level, user level and as an itemised list.

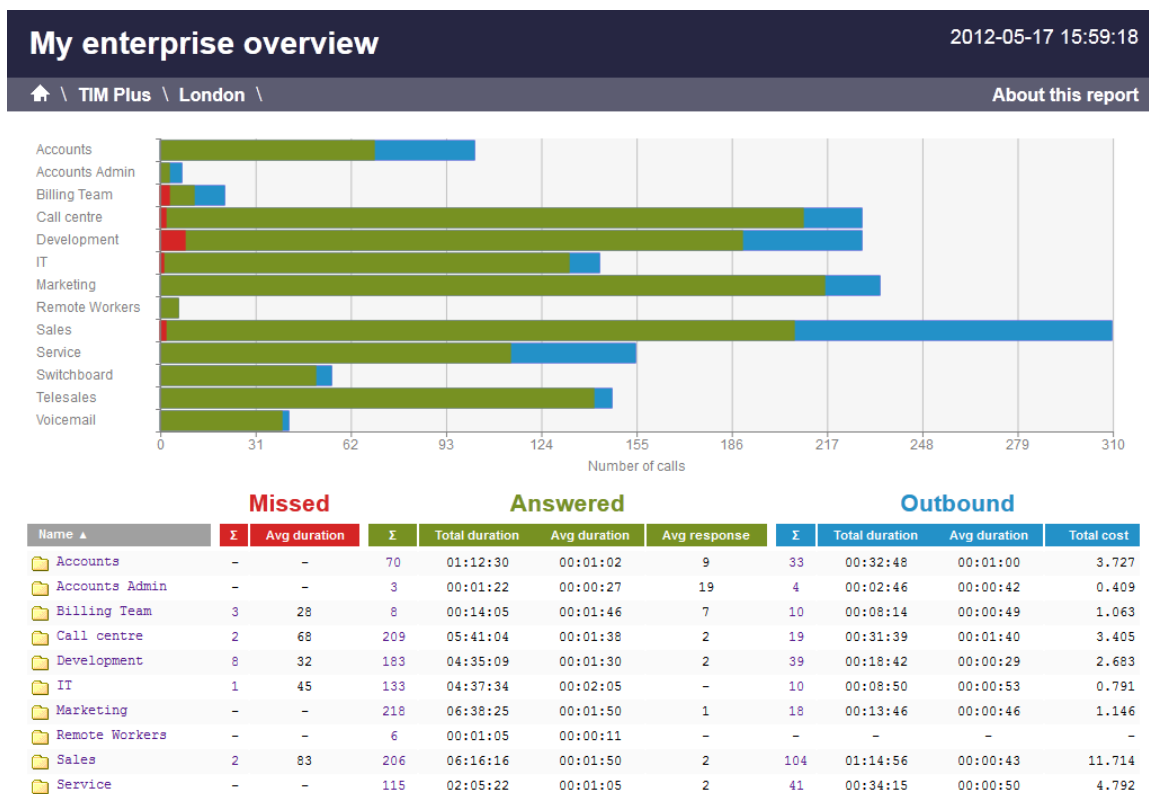
Site level

At site level, the report will show call summary information for each site, as shown below:



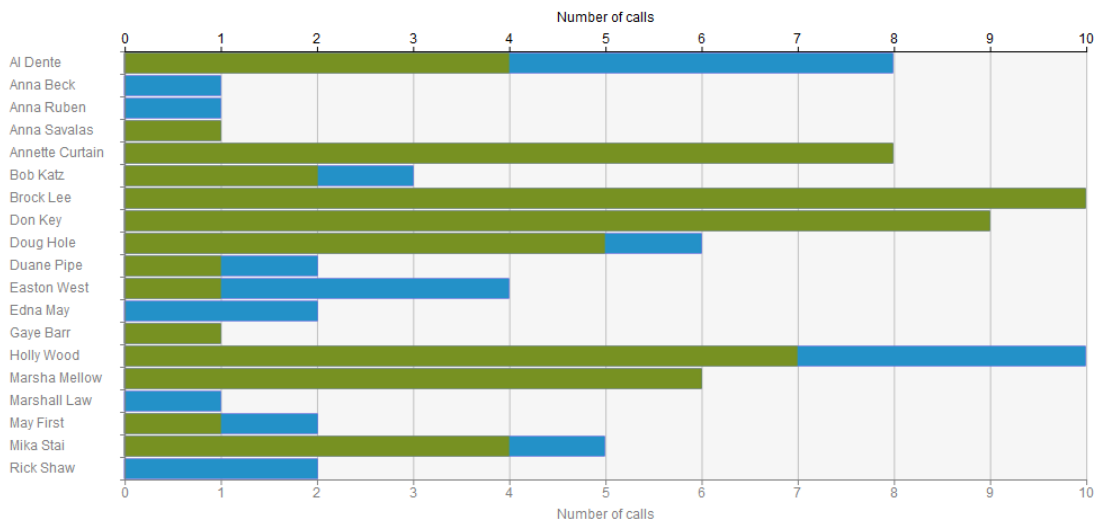
Group level

By clicking on a site, you can drill down into group-level information, as shown below:



User level

When drilling down into a group, a new report is produced, showing the same summary information for each individual user within that group, as shown below:



Answered					Outbound			
Name	Σ	Total duration	Avg duration	Avg response	Σ	Total duration	Avg duration	Total cost
Al Dente	4	00:02:05	00:00:31	32	4	00:01:59	00:00:30	0.269
Anna Beck	-	-	-	-	1	00:00:04	00:00:04	0.030
Anna Ruben	-	-	-	-	1	00:00:03	00:00:03	0.030

At all organisational levels, the body of the report consists of a table containing call summary information about each entity. The column headers of this table are described below:

Header	Description
Name	The name of the entity for each line of data
Missed	<ul style="list-style-type: none"> Σ: The total number of missed calls Avg duration: The average duration of all missed calls (in seconds)
Answered	<ul style="list-style-type: none"> Σ: The number of incoming calls answered by extensions within the selected entity, including transferred calls Total duration: The total duration of all incoming calls (in hours, minutes and seconds) Avg duration: The average duration of all incoming calls (in hours, minutes and seconds) Avg response: The average time taken to respond to all incoming calls (in seconds)

<p>Outbound</p>	<ul style="list-style-type: none"> ▪ Σ: The number of outbound calls ▪ Total duration: The total duration of all outgoing calls (in hours, minutes and seconds) ▪ Avg duration: The average duration of all outgoing calls (in hours, minutes and seconds) ▪ Total cost: The total aggregate cost of all outbound calls
------------------------	---

In addition to summary information, totals and averages for each call type are shown in the footer of each column.

Itemised list

By clicking on the hyperlink of a particular user, a new report is produced that shows - in chronological order - an itemised list of calls made or received by that user, as shown below:

My enterprise overview						2012-05-17 16:07:50	
Home \ TIM Plus \ London \ Accounts \ Al Dente \						About this report	
All Outbound Answered Missed Internal							
Date & Time ▲	Source	CLI	Route	Destination	Response	Duration	Cost
16/05/2012 10:41:21	Al Dente	-	07956186198	T-Mobile	-	00:00:34	0.074
16/05/2012 10:42:18	Jason Myers	-	2042	Al Dente	-	00:00:21	-
16/05/2012 10:47:23	David Ellis	-	2042	Al Dente	-	00:03:23	-
16/05/2012 10:59:51	Orange	07854181304	-	Al Dente	21	00:00:31	-
16/05/2012 11:09:53	Al Dente	-	02076132858	London	-	00:00:04	0.030
16/05/2012 11:42:13	Grace Harper	-	2042	Al Dente	-	00:01:58	-
16/05/2012 11:52:21	Sam Thornton	-	2042	Al Dente	-	00:00:14	-
16/05/2012 12:55:36	Al Dente	-	02074054600	London	-	00:01:21	0.135
16/05/2012 15:13:18	Orange	07967460922	-	Al Dente	4	00:00:47	-
16/05/2012 15:14:16	Orange	07854180689	-	Al Dente	43	00:00:30	-
16/05/2012 16:44:53	Warren Peace	-	2042	Al Dente	-	00:01:16	-
16/05/2012 17:38:36	T-Mobile	07958108040	-	Al Dente	61	00:00:17	-
16/05/2012 18:36:21	Al Dente	-	07854181108	Orange	-	-	0.030
13 calls						00:11:16	0.269

The headers of the itemised call table are described below:

Header	Description
Date & Time	The date and time the call started
Source	The place from where the call originated
CLI	The telephone number of the remote caller for inbound calls

Route	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the CLI of the caller ▪ for incoming internal calls, this shows either the caller's username or extension number ▪ for outgoing calls, this shows the dialled number
Destination	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the name of the user whose extension answered the call, or the extension number if not available ▪ for outgoing calls, this shows the geographical location that was dialled, or an alias if defined in your contacts list ▪ for internal calls, this shows the extension that was dialled, enclosed in square brackets []
Response	The length of time it took for the call to be answered (i.e. the response time)
Duration	The duration of the call (in hours, minutes and seconds)
Cost	The cost of the call

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Frequent Numbers

The Frequent Numbers report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Frequent Numbers report shows a top-ranking list of the numbers that you call, or are called by, most frequently. By highlighting your

most frequently-called destinations, the report can help you to determine if private circuits to your commonly-called destinations would be beneficial; it can also help you negotiate call rates with your network provider.

My frequent numbers 2012-05-17 16:11:54				
Home \ TIM Plus \ London \ Accounts \ About this report				
Dialled number ▲	Location	Number of calls	Total duration	Total cost
07966465332	Orange	11	00:01:07	0.330
07932138688	T-Mobile	9	00:00:53	0.270
07985980159	T-Mobile	16	00:04:52	0.715
07722702388	T-Mobile	10	00:01:21	0.300
02087355100	London	14	00:01:21	0.420
07958048138	T-Mobile	8	00:10:00	1.302
07867996393	Vodafone	11	00:00:59	0.330
02075849901	London	9	00:02:05	0.271
07849093682	O2	12	00:01:52	0.367
07867525709	Vodafone	19	00:07:11	1.095
01342833313	East Grinstead	14	00:01:11	0.420
02075362601	London	8	00:00:40	0.240
02085977789	London	9	00:05:07	0.418
02074787000	London	9	00:01:02	0.270
07852616027	T-Mobile	14	00:08:53	1.191
07786276358	Vodafone	16	00:05:55	0.826
07968385191	Orange	10	00:03:03	0.437
00972525456330	Israel Mobile	9	00:02:27	2.646
07944789366	T-Mobile	13	00:09:00	1.243
07779599573	Orange	9	00:00:57	0.270
07957357127	T-Mobile	10	00:02:39	0.430
07854180071	Orange	12	00:01:14	0.360
02077497500	London	7	00:02:36	0.279
02088705151	London	12	00:02:46	0.396
07930410804	T-Mobile	14	00:06:52	0.910
07785546623	Vodafone	16	00:01:17	0.480
02080801502	London	9	00:03:23	0.346

Running the report

On the Reports screen, select the Frequent numbers report from the left-hand pane and click the **Select this report** button.

The screenshot shows the TIMPLUS Reports interface. On the left, a vertical menu lists various reports, with 'Frequent numbers' highlighted. The main content area is titled 'Frequent numbers' and contains a table of call data, a descriptive text block, and a 'Select this report' button. The table data is as follows:

Dialled number	Location	Number of calls	Total duration	Total cost
07966465332	Orange	11	00:01:07	0.330
07932138688	T-Mobile	9	00:00:53	0.270
07985980159	T-Mobile	16	00:04:52	0.715
07722702388	T-Mobile	10	00:01:21	0.300
02087355100	London	14	00:01:21	0.420
07958048138	T-Mobile	8	00:10:00	1.302
07867996393	Vodafone	11	00:00:59	0.330
02075849901	London	9	00:02:05	0.271
07849093682	O2	12	00:01:52	0.367
07867525709	Vodafone	19	00:07:11	1.095
01342833313	East Grinstead	14	00:01:11	0.420
02075362601	London	8	00:00:40	0.240
02085977789	London	9	00:05:07	0.418
02074787000	London	9	00:01:02	0.270
07852616027	T-Mobile	14	00:08:53	1.191
07786276358	Vodafone	16	00:05:55	0.826
07968385191	Orange	10	00:03:03	0.437
00972525456330	Israel Mobile	9	00:02:27	2.646
07944789366	T-Mobile	13	00:09:00	1.243
07779599573	Orange	9	00:00:57	0.270
07957357127	T-Mobile	10	00:02:39	0.430
07854180071	Orange	12	00:01:14	0.360
02077497500	London	7	00:02:36	0.279
02088705151	London	12	00:02:46	0.396
07930410804	T-Mobile	14	00:06:52	0.910
07785546623	Vodafone	16	00:01:17	0.480
02080801502	London	9	00:03:23	0.346

A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

Select a reporting period

Define the period you want the report to encompass.

Remember, you can always filter your results later, so choose a big enough period.

Period

From date

To date

From time

To time

Yesterday

Today

Yesterday

This week

Last week

This month

Last month

This year


All calls

Custom period

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		


Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	---













If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters


You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	<input type="text" value="0140"/>	
--------------	-----------------------------------	---

To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
-----------	-----------	---

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier	All carriers	
---------	--------------	---

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:


Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).


To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code


To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the `start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---










You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.

Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options

Specify one or more of any additional report options shown here.

<input type="checkbox"/>	Exclude weekends	
<input type="checkbox"/>	Exclude transfers	
<input type="checkbox"/>	Don't replace numbers with contact names	
Call frequency	<input type="text" value="2"/>	
Group results by	<input type="text" value="Dialled number"/>	
Sort data by	<input type="text" value="Number of calls"/>	
Sort order	<input type="text" value="Ascending"/>	
Sort results by	<input type="text" value="Dialled number"/>	
Ignore missed calls shorter than	<input type="text" value=""/> seconds	


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

<input checked="" type="checkbox"/>	Exclude weekends	
-------------------------------------	------------------	---


Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

<input checked="" type="checkbox"/>	Exclude transfers	
-------------------------------------	-------------------	---

Don't replace numbers with contact names

Tick this option if you do not want to replace dialled numbers, CLIs and account codes with their associated names, as defined in your web user's contacts list.

<input checked="" type="checkbox"/>	Don't replace numbers with contact names	
-------------------------------------	--	---

Call frequency

This option determines how frequently a call must have been dialled in order to feature in the results of this report. For example, to include only phone numbers that have been dialled twenty times or more, enter **20** as the minimum frequency, as shown below:

Call frequency	<input type="text" value="20"/>	
----------------	---------------------------------	---

Group results by

Choose from the drop-down list whether to group your results by CLI or dialled number.

Group results by	<input type="text" value="Dialled number"/>
------------------	---



Sort data by

To choose the criteria that is used in determining the most frequent calls, select a field from the `Sort data by` drop-down list.

Sort data by	Cost	
--------------	------	--

Sort order

Choose from the `Sort order` drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order	Ascending	
------------	-----------	--

Sort results by

To sort your report's results by a particular column, select it from the `Sort results by` drop-down list.

Sort results by	Dialled number	
-----------------	----------------	--

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter 3 .

Ignore missed calls shorter than	3	seconds	
----------------------------------	---	---------	--

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the `Run now` button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in.

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Report format Web ▼

The report's results

Below is an example of this report's output in `web` format. By clicking on the `About this report` link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

My frequent numbers 2012-05-17 16:11:54

[Home](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \

[About this report](#)

Dialled number ▲	Location	Number of calls	Total duration	Total cost
07966465332	Orange	11	00:01:07	0.330
07932138688	T-Mobile	9	00:00:53	0.270
07985980159	T-Mobile	16	00:04:52	0.715
07722702388	T-Mobile	10	00:01:21	0.300
02087355100	London	14	00:01:21	0.420
07958048138	T-Mobile	8	00:10:00	1.302
07867996393	Vodafone	11	00:00:59	0.330
02075849901	London	9	00:02:05	0.271
07849093682	02	12	00:01:52	0.367
07867525709	Vodafone	19	00:07:11	1.095
01342833313	East Grinstead	14	00:01:11	0.420
02075362601	London	8	00:00:40	0.240
02085977789	London	9	00:05:07	0.418
02074787000	London	9	00:01:02	0.270
07852616027	T-Mobile	14	00:08:53	1.191
07786276358	Vodafone	16	00:05:55	0.826
07968385191	Orange	10	00:03:03	0.437
00972525456330	Israel Mobile	9	00:02:27	2.646
07944789366	T-Mobile	13	00:09:00	1.243
07779599573	Orange	9	00:00:57	0.270
07957357127	T-Mobile	10	00:02:39	0.430
07854180071	Orange	12	00:01:14	0.360
02077497500	London	7	00:02:36	0.279
02088705151	London	12	00:02:46	0.396
07930410804	T-Mobile	14	00:06:52	0.910
07785546623	Vodafone	16	00:01:17	0.480
02080801502	London	9	00:03:23	0.346

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results.

The body of the report contains a table showing a summary of each frequently dialled number or CLI along with their associated destinations. The column headers of the table are described below:

Header	Description
Dialled number	The telephone number that was dialled
Location	The location name associated with the dialled number or CLI
Number of calls	The total number of calls made to each unique dialled number or from each unique CLI
Total duration	The total time spent on calls to each dialled number or from each CLI, displayed in hh:mm:ss format
Total cost	The total cost of calls for each unique dialled number

All dialled numbers, CLIs and locations in the table are shown as hyperlinks; clicking on any of them displays an itemised list of calls to/from each one.

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:

[Home](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \
 [About this report](#)

Inbound Call Performance

The Inbound Call Performance report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Inbound Call Performance report displays how quickly your inbound calls are being answered, compared to your target thresholds, grouped by year, month, day or hour. A visual representation of how well each target is met is shown alongside a table containing the actual response time values.



Running the report

On the Reports screen, select the Inbound call performance report from the left-hand pane and click the **Select this report** button.

A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

Select a reporting period

Define the period you want the report to encompass.


Remember, you can always filter your results later, so choose a big enough period.

<p>Period</p> <p>From date</p> <p>To date</p> <p>From time</p> <p>To time</p>	<div style="border: 1px solid #ccc; padding: 5px;"> i <p>Yesterday</p> <p style="background-color: #e0e0e0;">Today</p> <p>Yesterday</p> <p>This week</p> <p>Last week</p> <p>This month</p> <p>Last month</p> <p>This year</p> <p>All calls</p> <p>Custom period</p> </div>
---	--

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		


Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	---











If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	<input type="text" value="All calls"/>		Duration	<input type="text"/>	
Carrier	<input type="text" value="(All carriers)"/>		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
			Start time	<input type="text"/>	
			Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code 

To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal etc. To report on all types of call, set this to **All calls**.

Call type 

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier 

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.


CLI 

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number 

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration 

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code


To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code 

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time 


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the `start time` field, as shown below:

Start time 

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code 




You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.



Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.

Options

Specify one or more of any additional report options shown here.

Exclude weekends 
 Exclude transfers 
 Hide unused 

Thresholds 
 Group by 


Exclude weekends

To exclude weekend calls from your report's results, select the `Exclude weekends` option.

Exclude weekends 


Exclude transfers

To exclude transferred calls from your report's results, select the `Exclude transfers` option.

Exclude transfers 

Hide unused

To exclude unused extensions from your report's results, select the `Hide unused` option.

Hide unused 


Thresholds

Define your response target threshold(s) by entering comma-separated values in the text box provided. The example below shows response time targets for calls answered within 5, 10 and 20 seconds, respectively.

Thresholds 

Group by

Select the time period by which you want to group your calls.

Group by 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the `Run now` button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in.

Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Run now

Schedule for later

The report's results

Below is an example of this report's output in web format. By clicking on the [About this report](#) link at the top-right corner of the page, you can review any filters and options that have been applied to the report.



As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results.

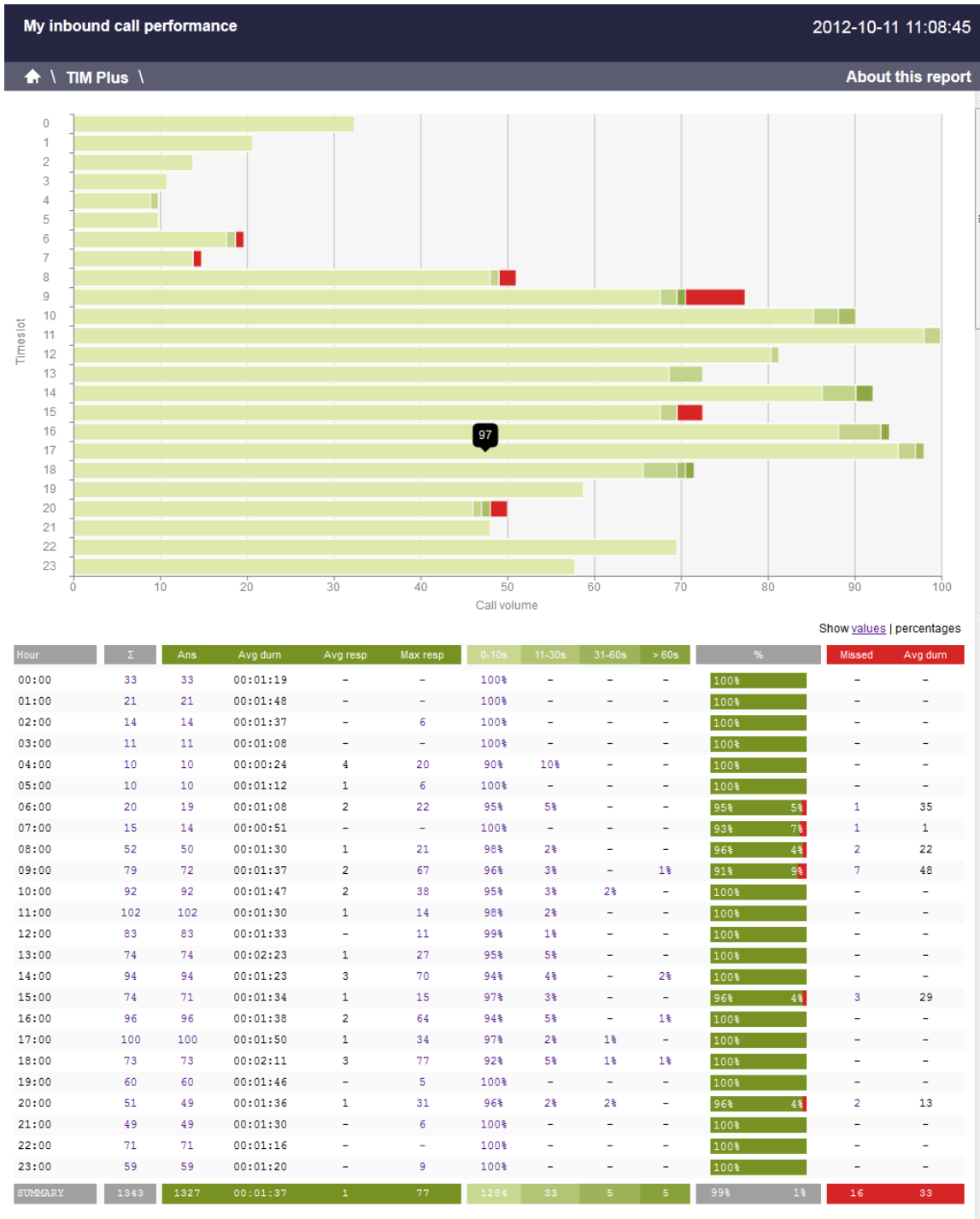
The achievement of each response time target is displayed as either percentages or actual values, and can be toggled using the link at the top-right of the graph.

The body of the report consists of a table showing a summary of your incoming calls, grouped by the period you selected. A description of the column headers are shown below:

Header	Description
Hour / Day / Month / Year	The time period.
Σ	The total number of calls in each period.

<p>Answered</p>	<ul style="list-style-type: none"> ▪ Ans: The total number of answered calls in each period. ▪ Avg durn: The average length of time of all answered calls in each period. ▪ Avg resp: The average response time of all answered calls in each period. ▪ Max resp: The maximum time it took to answer a call in each period. ▪ x-xx s: The percentage of calls that were answered within each predefined target, e.g. if 50% is displayed under the 0-5s heading, means that half of all calls were answered within 5 seconds.
<p>%</p>	<p>The number of answered versus missed calls within each period, expressed as a percentage.</p>
<p>Missed</p>	<ul style="list-style-type: none"> ▪ Σ: The total number of missed calls in each period. ▪ Avg durn: The average length of time that missed calls rang before they were abandoned.

Each period is shown as a hyperlink which, if clicked on, re-runs the report using a more granular period.



To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Missed Calls

The Missed Calls report

- Introduction
- Running the report
- Creating the report
- The report's results

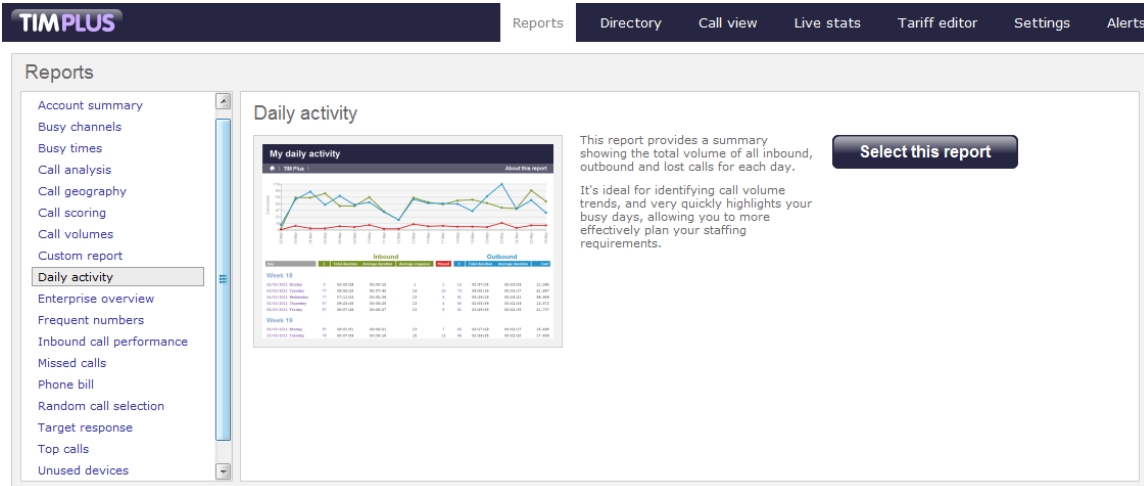
Introduction

The Missed Calls report analyses your missed calls in order to highlight which callers have and haven't been responded to. Each missed call is given a priority rating depending on how many times and how often the caller attempted to make contact. The time window in which a call must be responded to, if it is to be considered handled, is user-definable.

My missed calls							2012-05-17 16:14:30											
Home \ TIM Plus \ London \ Accounts \							About this report											
<input checked="" type="button" value="Missed"/> <input type="button" value="Handled"/>							Expand all Collapse all											
First attempt ▲	CLI	Contact	Avg ring time	Attempts	Priority													
02 September 2012 09:57:13	07854181348	Simon Mason, ...	00:01:30	2	<div style="width: 100%; height: 10px; background-color: red;"></div>													
<table border="1"> <thead> <tr> <th>Date & time</th> <th>Dialled number</th> <th>Contact</th> <th>Ring time</th> </tr> </thead> <tbody> <tr> <td>02 September 2012 09:57:13</td> <td></td> <td>Simon Mason</td> <td>00:01:56</td> </tr> <tr> <td>02 September 2012 09:58:36</td> <td></td> <td>Bruce Stanton</td> <td>00:01:04</td> </tr> </tbody> </table>							Date & time	Dialled number	Contact	Ring time	02 September 2012 09:57:13		Simon Mason	00:01:56	02 September 2012 09:58:36		Bruce Stanton	00:01:04
Date & time	Dialled number	Contact	Ring time															
02 September 2012 09:57:13		Simon Mason	00:01:56															
02 September 2012 09:58:36		Bruce Stanton	00:01:04															
02 September 2012 09:58:26	07743409903	Simon Mason	00:00:09	1	<div style="width: 0%; height: 10px; background-color: red;"></div>													
02 September 2012 12:30:33	07854180254	Bruce Stanton	00:00:23	1	<div style="width: 0%; height: 10px; background-color: red;"></div>													
02 September 2012 14:41:23	07854180338	Bruce Stanton	00:00:02	1	<div style="width: 0%; height: 10px; background-color: red;"></div>													
02 September 2012 17:10:28	07854180075	Bruce Stanton	00:00:06	1	<div style="width: 0%; height: 10px; background-color: red;"></div>													
02 September 2012 20:05:41	07854180960	John Slater	00:00:08	1	<div style="width: 0%; height: 10px; background-color: red;"></div>													
03 September 2012 09:45:18	07854181014	Bruce Stanton	00:01:07	1	<div style="width: 0%; height: 10px; background-color: red;"></div>													
03 September 2012 09:55:56	07743391073	Bruce Stanton, ...	00:00:57	2	<div style="width: 100%; height: 10px; background-color: red;"></div>													
<table border="1"> <thead> <tr> <th>Date & time</th> <th>Dialled number</th> <th>Contact</th> <th>Ring time</th> </tr> </thead> <tbody> <tr> <td>03 September 2012 09:55:56</td> <td></td> <td>Bruce Stanton</td> <td>00:00:53</td> </tr> <tr> <td>03 September 2012 09:58:26</td> <td></td> <td>Simon Mason</td> <td>00:01:01</td> </tr> </tbody> </table>							Date & time	Dialled number	Contact	Ring time	03 September 2012 09:55:56		Bruce Stanton	00:00:53	03 September 2012 09:58:26		Simon Mason	00:01:01
Date & time	Dialled number	Contact	Ring time															
03 September 2012 09:55:56		Bruce Stanton	00:00:53															
03 September 2012 09:58:26		Simon Mason	00:01:01															
03 September 2012 09:57:13	07854181348	Simon Mason, ...	00:01:00	2	<div style="width: 100%; height: 10px; background-color: red;"></div>													
<table border="1"> <thead> <tr> <th>Date & time</th> <th>Dialled number</th> <th>Contact</th> <th>Ring time</th> </tr> </thead> <tbody> <tr> <td>03 September 2012 09:57:13</td> <td></td> <td>Simon Mason</td> <td>00:01:54</td> </tr> <tr> <td>03 September 2012 09:58:36</td> <td></td> <td>Bruce Stanton</td> <td>00:00:05</td> </tr> </tbody> </table>							Date & time	Dialled number	Contact	Ring time	03 September 2012 09:57:13		Simon Mason	00:01:54	03 September 2012 09:58:36		Bruce Stanton	00:00:05
Date & time	Dialled number	Contact	Ring time															
03 September 2012 09:57:13		Simon Mason	00:01:54															
03 September 2012 09:58:36		Bruce Stanton	00:00:05															
03 September 2012 17:10:28	07854832625	Bruce Stanton	00:00:06	1	<div style="width: 0%; height: 10px; background-color: red;"></div>													

Running the report

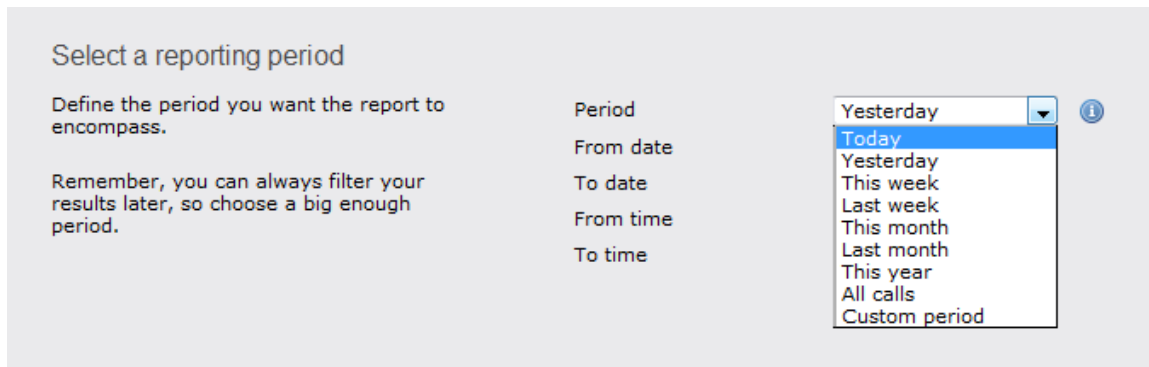
On the Reports screen, select the Missed calls report from the left-hand pane and click the **Select this report** button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".



There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.

Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		


Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User 













- If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	<input type="text" value="All calls"/>		Duration	<input type="text"/>	
Carrier	<input type="text" value="(All carriers)"/>		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code 

To report on more than one account code, separate each code using a comma.


Call type

This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.

Call type 

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier 

-  If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on

all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:


Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).


To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code


To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the `-` symbol and; to specify limits, use the comparison operators, `>`, `<`, and `!`.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the `hh:mm:ss` format.

For example, to include only calls that began after 10 am, you could enter `10:00:00` in the `Start time` field, as shown below:






Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---


Selecting the report options


This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options


Specify one or more of any additional report options shown here.

- Exclude weekends 
- Summary only 
- Don't replace numbers with contact names 
- Notes only 
- Audio only 

Sort order 


Sort results by 

Ignore missed calls shorter than seconds 

Callback interval 


Exclude weekends

To exclude weekend calls from your report's results, select the `Exclude weekends` option.

<input checked="" type="checkbox"/> Exclude weekends 
--


Summary only

To show only a summary of your missed calls, instead of an itemised list, tick the box `Summary only`, as shown below:

<input checked="" type="checkbox"/> Summary only 
--


Don't replace numbers with contact names

Tick this option if you do not want to replace dialled numbers, CLIs and account codes with their associated names, as defined in your web user's contacts list.

<input checked="" type="checkbox"/> Don't replace numbers with contact names 
--


Notes only

Tick this option if you want your search results to include only calls that have notes associated with them.

<input checked="" type="checkbox"/> Notes only 
--

Audio only

Tick this option if you want your search results to include only calls that have an associated voice recording.

Audio only 


Sort order

Choose from the `sort order` drop-down list whether you want the results of your report to appear in ascending or descending order.

Sort order 


Sort results by

To sort your report's results by a particular column, select it from the `sort results by` drop-down list.

Sort results by 

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter 3 .

Ignore missed calls shorter than seconds 

Callback interval

This option allows you to define, in hours, the time window in which a call must be responded to, in order to be considered handled. The default callback interval is 24 (hours), but you may enter your own value, as shown below:

Callback interval 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the `Run now` button, or schedule it for future delivery.

Your report is ready to run

Select the format that you want your report to be in.

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Report format

The report's results

Below is an example of this report's output in `web` format. By clicking on the `About this report` link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

My missed calls							2012-05-17 16:14:30											
Home \ TIM Plus \ London \ Accounts \ About this report																		
<input checked="" type="button" value="Missed"/> <input type="button" value="Handled"/>							Expand all Collapse all											
First attempt ▲	CLI	Contact	Avg ring time	Attempts	Priority	<input type="checkbox"/>												
02 September 2012 09:57:13	07854181348	Simon Mason, ...	00:01:30	2	■	<input type="checkbox"/>												
<table border="1"> <thead> <tr> <th>Date & time</th> <th>Dialled number</th> <th>Contact</th> <th>Ring time</th> </tr> </thead> <tbody> <tr> <td>02 September 2012 09:57:13</td> <td></td> <td>Simon Mason</td> <td>00:01:56</td> </tr> <tr> <td>02 September 2012 09:58:36</td> <td></td> <td>Bruce Stanton</td> <td>00:01:04</td> </tr> </tbody> </table>							Date & time	Dialled number	Contact	Ring time	02 September 2012 09:57:13		Simon Mason	00:01:56	02 September 2012 09:58:36		Bruce Stanton	00:01:04
Date & time	Dialled number	Contact	Ring time															
02 September 2012 09:57:13		Simon Mason	00:01:56															
02 September 2012 09:58:36		Bruce Stanton	00:01:04															
02 September 2012 09:58:26	07743409903	Simon Mason	00:00:09	1	<input type="checkbox"/>	<input type="checkbox"/>												
02 September 2012 12:30:33	07854180254	Bruce Stanton	00:00:23	1	<input type="checkbox"/>	<input type="checkbox"/>												
02 September 2012 14:41:23	07854180338	Bruce Stanton	00:00:02	1	<input type="checkbox"/>	<input type="checkbox"/>												
02 September 2012 17:10:28	07854180075	Bruce Stanton	00:00:06	1	<input type="checkbox"/>	<input type="checkbox"/>												
02 September 2012 20:05:41	07854180960	John Slater	00:00:08	1	<input type="checkbox"/>	<input type="checkbox"/>												
03 September 2012 09:45:18	07854181014	Bruce Stanton	00:01:07	1	<input type="checkbox"/>	<input type="checkbox"/>												
03 September 2012 09:55:56	07743391073	Bruce Stanton, ...	00:00:57	2	■	<input type="checkbox"/>												
<table border="1"> <thead> <tr> <th>Date & time</th> <th>Dialled number</th> <th>Contact</th> <th>Ring time</th> </tr> </thead> <tbody> <tr> <td>03 September 2012 09:55:56</td> <td></td> <td>Bruce Stanton</td> <td>00:00:53</td> </tr> <tr> <td>03 September 2012 09:58:26</td> <td></td> <td>Simon Mason</td> <td>00:01:01</td> </tr> </tbody> </table>							Date & time	Dialled number	Contact	Ring time	03 September 2012 09:55:56		Bruce Stanton	00:00:53	03 September 2012 09:58:26		Simon Mason	00:01:01
Date & time	Dialled number	Contact	Ring time															
03 September 2012 09:55:56		Bruce Stanton	00:00:53															
03 September 2012 09:58:26		Simon Mason	00:01:01															
03 September 2012 09:57:13	07854181348	Simon Mason, ...	00:01:00	2	■	<input type="checkbox"/>												
<table border="1"> <thead> <tr> <th>Date & time</th> <th>Dialled number</th> <th>Contact</th> <th>Ring time</th> </tr> </thead> <tbody> <tr> <td>03 September 2012 09:57:13</td> <td></td> <td>Simon Mason</td> <td>00:01:54</td> </tr> <tr> <td>03 September 2012 09:58:36</td> <td></td> <td>Bruce Stanton</td> <td>00:00:05</td> </tr> </tbody> </table>							Date & time	Dialled number	Contact	Ring time	03 September 2012 09:57:13		Simon Mason	00:01:54	03 September 2012 09:58:36		Bruce Stanton	00:00:05
Date & time	Dialled number	Contact	Ring time															
03 September 2012 09:57:13		Simon Mason	00:01:54															
03 September 2012 09:58:36		Bruce Stanton	00:00:05															
03 September 2012 17:10:28	07854832625	Bruce Stanton	00:00:06	1	<input type="checkbox"/>	<input type="checkbox"/>												

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results.

The report consists of two sections: Missed calls and Handled calls.

Missed calls

The calls tab displays a table containing the calls that were missed and not responded to. Each column header of the table is described below:

Header	Description
First attempt	The date and time of the first missed call
CLI	The telephone number of the remote caller
Contact	The person who missed the call. If several people were called, the field will display the caption, Various
Avg ring time	The average length of time a missed call rang before being abandoned
Attempts	The number of times the caller attempted to reach the specified contact without success
Priority	The priority is calculated by dividing the difference in time between the first and last call attempt by the total number of call attempts

Handled calls

The **Handled** calls tab displays a table containing the calls that were initially missed but eventually responded to. Each column header of the table is described below:

Header	Description
Handled	The date and time the call was handled
CLI	The telephone number of the remote caller
Contact	The person who eventually handled the call
Duration	The duration of the handled call
Attempts	The number of call attempts made before the call was eventually handled
Priority	The priority is calculated by dividing the difference in time between the first and last call attempt by the total number of call attempts



Clicking on an individual call will show an itemised list of all call attempts made by that same caller; clicking on the **Expand all** link at the top-right corner of the screen will show this itemised list for all missed calls on the page.

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Phone Bill

The Phone Bill report

- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The Phone Bill report produces a fully itemised telephone bill for billing back telephone usage to your clients, with the option of adding a percentage markup to each phone call. These bills can also include fixed charges for items other than phone calls, such as room rental, internet services and additional sundry items. You can fully customise the style of the report's output to reflect your own brand, including a company logo, for example.

My phone bill

2012-05-17 16:17:44

[Home](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \
[About this report](#)

Mary Quant (4329)

Call charges

Date & time ▲	Dialled number	Destination	Duration	Cost
02/03/2012 14:50:26	07904910757	T-Mobile	00:01:30	0.195
03/03/2012 14:50:26	07904910757	T-Mobile	00:00:34	0.074
05/03/2012 14:50:26	07904691257	T-Mobile	00:00:58	0.126
07/03/2012 14:50:26	07904691337	T-Mobile	00:00:11	0.030
08/03/2012 14:50:26	07904028757	T-Mobile	00:01:42	0.221
10/03/2012 14:50:26	07904671427	T-Mobile	00:01:58	0.256
11/03/2012 14:50:26	07904910757	T-Mobile	00:01:11	0.154
19/03/2012 14:50:26	07904390957	T-Mobile	00:00:03	0.030
19/03/2012 14:50:26	07904910757	T-Mobile	00:01:37	0.210
22/03/2012 14:50:26	07904910757	T-Mobile	00:00:16	0.035
23/03/2012 14:50:26	07904910757	T-Mobile	00:02:00	0.260
11 calls			00:12:00	1.591

Subtotal**1.590**

Summary of bill

Bill total	572.06
Tax (20.0%)	114.41
Total payable	686.47

Marking up calls

You can apply a call markup at both user group and individual user level, by setting a charge value inside the Directory.

To apply a markup for a user group, navigate to the [Directory](#) tab, select the user group and click the [Properties](#) button.

The screenshot shows the TIMPLUS web interface. At the top, there are navigation tabs: Reports, Directory, Call view, Live stats, Tariff editor, Settings, and Alerts. Below this, there are two main panels. The left panel is titled 'Sites' and contains icons for London, Manchester, Newport, and Newcastle. The right panel is titled 'User groups' and 'Channel groups'. Under 'Channel groups', there are icons for ABC Corp, Accounts (which is highlighted), Admin, Call centre, Development, IT, Joe Bloggs, Marketing, Sales, Service, Switchboard, and Telesales. At the top right of the 'Channel groups' panel, there are 'Add' and 'Properties' buttons. The 'Properties' button is highlighted with a red border.

In the Group properties window that appears, select the [Charge](#) tab and enter a percentage markup in the box provided, then click on the [Save](#) button. In the example below, a 50% charge would be added to all calls in the selected group.

Group properties [X]

General | Telephony | Alarms | **Charge** | Tariff

Apply a markup of % to calls made by this group
in Phone Bill reports

To apply a markup for an individual user, navigate to the **Directory** tab, locate the user you are interested in and click the **Properties** button. In the **User properties** window that appears, select the **Markup** tab and enter a description and percentage markup in the boxes provided, then click on the **Save** button.

User properties [X]

General | Telephony | Charge | **Markup**

Enter a description and percentage to charge this user
per call on a Phone Bill report

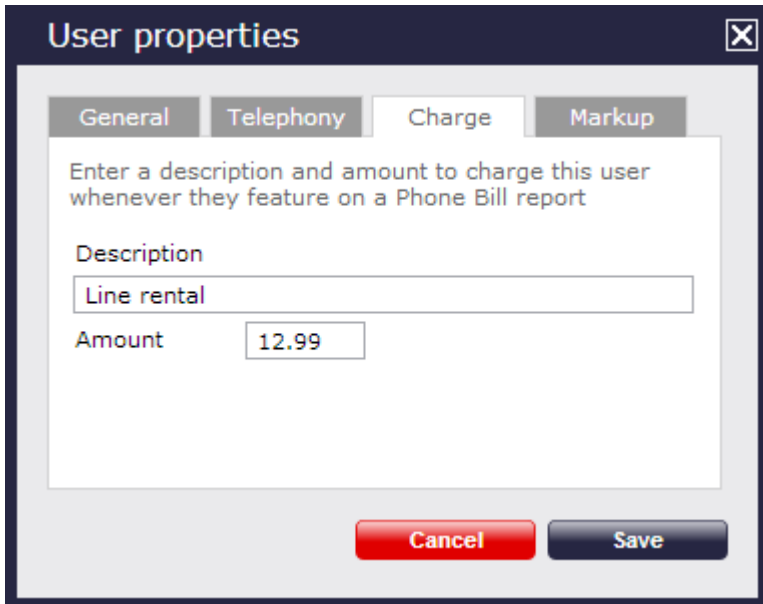
Description

Amount %

Adding a fixed charge

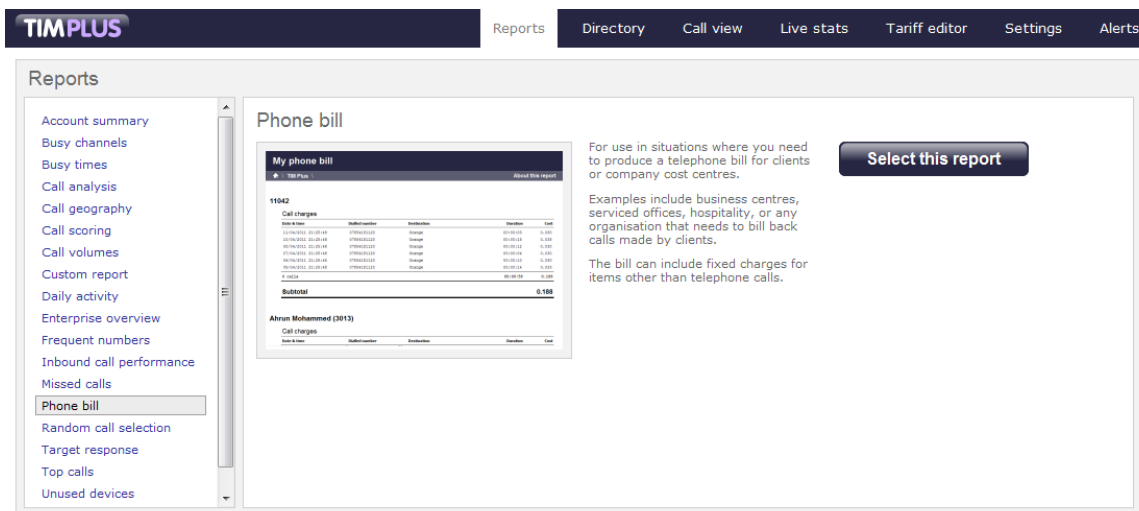
You can also add a fixed charge for items other than phone calls for each individual user that will feature in your bill.

To add a fixed charge, navigate to the **Directory** tab, select the user and click the **Properties** button. On the **User properties** window that appears, select the **Charge** tab and enter a description and a charge in the boxes provided, then click on the **Save** button.



Running the report

On the Reports screen, select the Phone bill report from the left-hand pane and click the **Select this report** button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period


For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".



There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day (normally Monday) of the current week. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.

Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity

Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	--

Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	--

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	--

If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code

To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	0140
--------------	------



To report on more than one account code, separate each code using a comma.

Call type

This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
-----------	-----------	--

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier	All carriers	
---------	--------------	--



If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	02072652600	
-----	-------------	--

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<2.00	
------	-------	--

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	!France*	
-------------	----------	--

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	0033	
----------------	------	--

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code


To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	--


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the **start time** field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---







You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.


Selecting the report options


This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options

Specify one or more of any additional report options shown here.

- Exclude weekends 
- Exclude transfers 
- Summary only 
- Don't replace numbers with contact names 
- Hide unused 
- Hide charges 


Sort order Ascending 

Sort results by Date & time 

Group calls by User 


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

Exclude weekends 


Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

Exclude transfers 


Summary only

To show only a summary of calls, instead of an itemised list, tick the box **Summary only**, as shown below:

Summary only 


Don't replace numbers with contact names

Tick this option if you do not want to replace dialled numbers, CLIs and account codes with their associated names, as defined in your web user's contacts list.

Don't replace numbers with contact names 


Hide unused

To exclude unused extensions from your report's results, select the **Hide unused** option.

Hide unused 


Hide charges

To hide the charges applied to this report, select the **Hide charges** option:

Hide charges 


Sort order

Choose from the **sort order** drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order	Ascending	
------------	-----------	---


Sort results by

To sort your report's results by a particular column, select it from the `sort results by` drop-down list.

Sort results by	Date & time	
-----------------	-------------	---

Group calls by

Choose from the `Group calls by` drop-down list how you want to group your results:

Group calls by	User	
----------------	------	---

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.


Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the `Run now` button, or schedule it for future delivery.

Your report is ready to run

Select the format that you want your report to be in.

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Report format	Web 
---------------	---

The report's results

Below is an example of this report's output in `web` format. By clicking on the `About this report` link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

My phone bill

2012-05-17 16:17:44

[Home](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \
[About this report](#)

Mary Quant (4329)

Call charges

Date & time ▲	Dialled number	Destination	Duration	Cost
02/03/2012 14:50:26	07904910757	T-Mobile	00:01:30	0.195
03/03/2012 14:50:26	07904910757	T-Mobile	00:00:34	0.074
05/03/2012 14:50:26	07904691257	T-Mobile	00:00:58	0.126
07/03/2012 14:50:26	07904691337	T-Mobile	00:00:11	0.030
08/03/2012 14:50:26	07904028757	T-Mobile	00:01:42	0.221
10/03/2012 14:50:26	07904671427	T-Mobile	00:01:58	0.256
11/03/2012 14:50:26	07904910757	T-Mobile	00:01:11	0.154
19/03/2012 14:50:26	07904390957	T-Mobile	00:00:03	0.030
19/03/2012 14:50:26	07904910757	T-Mobile	00:01:37	0.210
22/03/2012 14:50:26	07904910757	T-Mobile	00:00:16	0.035
23/03/2012 14:50:26	07904910757	T-Mobile	00:02:00	0.260
11 calls			00:12:00	1.591

Subtotal	1.590
-----------------	--------------

Summary of bill

Bill total	572.06
Tax (20.0%)	114.41
Total payable	686.47

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results.

The body of the report consists of an itemised call list for each billed user. Each itemised list has the following column headers:

Header	Description
Date & Time	The date and time the call started.
Dialled number	The telephone number that was dialled.
Destination	The location name associated with the dialled number.
Duration	The total time spent on the call, in hh:mm:ss format.
Cost	The cost of the call(s).
Subtotal	The total cost of all outgoing calls for each user.
Bill total	The total cost of all outgoing calls for all users.
Tax	The sales tax to apply to the bill (if applicable).
Total payable	The total amount payable, including taxes.

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:

[Home](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \
[About this report](#)

Random Call Selection

The Random Call Selection report

- Introduction
- Running the report
- Creating the report
- The report's results

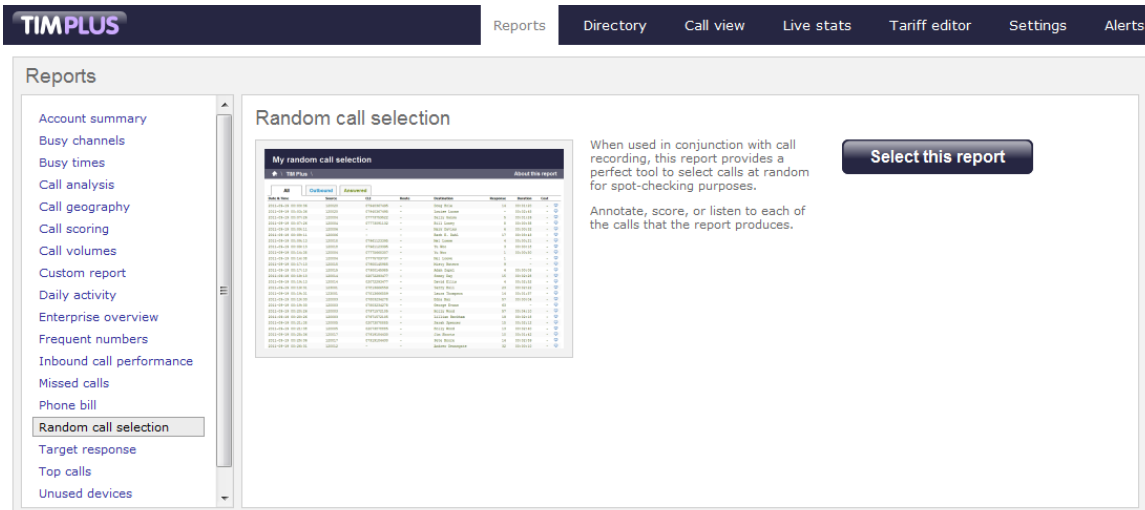
Introduction

The Random Call Selection report is useful for obtaining a sample of phone calls from across your organisation for the purposes of call auditing and quality control, especially when coupled with the integrated call recording features of TIM Plus. You can annotate, score, or listen to any of the calls that appear in the report's results.

My random call selection							2012-05-17 16:14:30	
Home \ TIM Plus \ London \ Accounts \							About this report	
All	Outbound	Answered	Missed	Internal				
Date & Time ▲	Source	CLI	Route	Destination	Response	Duration	Cost	
2012-03-01 15:15:43	London	02072998500	-	Tom Morrow	-	00:00:02	-	🔊
2012-03-02 08:50:06	Jean Poole	-	2062	Adam Zapel	-	00:00:44	-	🔊
2012-03-02 15:08:26	T-Mobile	07957218628	-	Claire Annette	-	00:00:10	-	🔊
2012-03-05 18:20:58	UNAVAILABLE	-	-	Tom Katz	-	00:01:02	-	🔊
2012-03-06 09:29:18	London	02073368085	-	Tom Morrow	-	00:08:43	-	🔊
2012-03-06 14:22:13	Hutchison 3G	07861384392	-	Susan Travis	12	00:02:09	-	🔊
2012-03-07 10:17:56	UNAVAILABLE	-	-	Tom Morrow	-	00:04:09	-	🔊
2012-03-07 10:53:28	Vodafone	07798607843	-	Tom Morrow	-	00:00:26	-	🔊
2012-03-07 11:09:03	London	02073836420	-	Claire Annette	-	00:01:26	-	🔊
2012-03-07 18:37:58	Adam Zapel	-	07779599573	Orange	-	00:00:01	0.030	🔊
2012-03-07 20:33:43	Ajith Tarasinghe	-	07930410804	T-Mobile	-	00:00:40	0.087	🔊
2012-03-08 08:50:06	Jean Poole	-	2062	Adam Zapel	-	00:01:16	-	🔊
2012-03-08 23:42:46	T-Mobile	07961749227	-	Ajith Tarasinghe	-	00:01:45	-	🔊
2012-03-09 07:48:28	Orange	07977404409	-	Cheri Pitts	-	00:02:42	-	🔊
2012-03-09 08:48:26	London	02078376433	-	Tanya Burrell	8	00:00:11	-	🔊
2012-03-09 10:50:23	London	02079018300	-	Cheri Pitts	-	00:02:08	-	🔊
2012-03-10 08:50:06	Jean Poole	-	2062	Adam Zapel	-	00:00:10	-	🔊
2012-03-10 15:31:56	Adam Zapel	-	02074372526	London	-	00:00:17	0.030	🔊
2012-03-10 17:08:18	London	02077935870	-	Tom Morrow	-	00:01:29	-	🔊
2012-03-11 01:00:56	London	02070108086	-	Tom Morrow	-	00:00:30	-	🔊
2012-03-11 09:14:48	Adam Zapel	-	07717813220	Vodafone	-	00:00:09	0.030	🔊
2012-03-13 09:26:38	London	02073076700	-	Cheri Pitts	-	00:01:19	-	🔊
2012-03-13 17:40:58	London	02073230660	-	Tom Katz	-	00:00:46	-	🔊
2012-03-14 10:17:56	UNAVAILABLE	-	-	Tom Morrow	-	00:00:14	-	🔊
2012-03-14 10:36:18	Adam Zapel	-	02077584475	London	-	00:00:06	0.030	🔊
2012-03-14 17:33:56	London	02071585500	-	Tom Katz	-	00:01:19	-	🔊
2012-03-14 22:01:41	London	02072263521	-	Tom Morrow	-	00:04:11	-	🔊
2012-03-15 09:59:51	Claire Annette	-	2071	Lance Boyle	-	00:01:04	-	🔊
2012-03-16 01:02:16	Adam Zapel	-	07779715284	Orange	-	00:00:39	0.085	🔊

Running the report

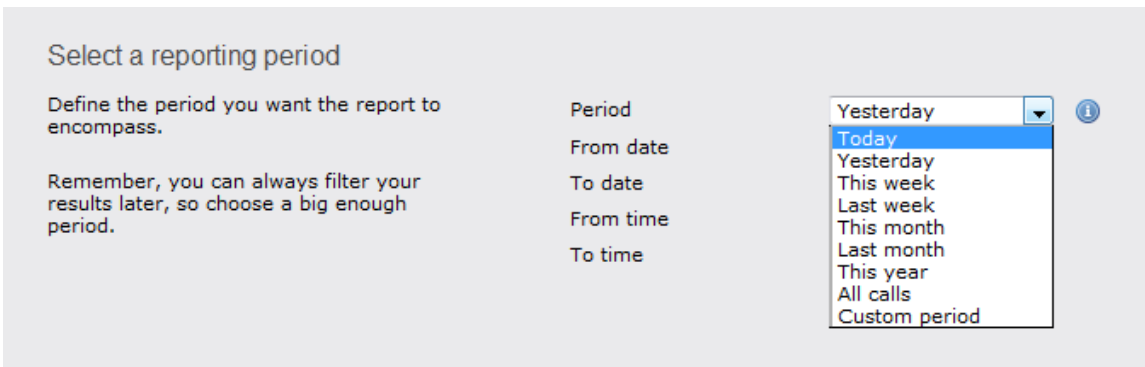
On the Reports screen, select the Random call selection report from the left-hand pane and click the **Select this report** button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".




There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.

Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.




Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity


Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		


Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---

Group


If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User 













 If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	<input type="text" value="All calls"/>		Duration	<input type="text"/>	
Carrier	<input type="text" value="(All carriers)"/>		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code 

To report on more than one account code, separate each code using a comma.

Call type

This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.

Call type 

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier 

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on


all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	<input type="text" value="02072652600"/>	
-----	--	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<input type="text" value="<2.00"/>	
------	---------------------------------------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	<input type="text" value="!France*"/>	
-------------	---------------------------------------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	<input type="text" value="0033"/>	
----------------	-----------------------------------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the `-` symbol and; to specify limits, use the comparison operators, `>`, `<`, and `!`.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the `hh:mm:ss` format.

For example, to include only calls that began after 10 am, you could enter `10:00:00` in the `Start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---






You can use the `!` symbol to explicitly exclude a trunk access code from the report's results, and/or the `*` symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the `9` trunk access code, you could enter `!9`. To report on more than one trunk access code, use a comma to separate each entry.


Selecting the report options


This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options

Specify one or more of any additional report options shown here.

- Don't replace numbers with contact names 
- Show account codes 
- Notes only 
- Audio only 
- Scored only 


Maximum results 

Sort order 

Sort results by 

Don't replace numbers with contact names

Tick this option if you do not want to replace dialled numbers, CLIs and account codes with their associated names, as defined in your web user's contacts list.

<input checked="" type="checkbox"/> Don't replace numbers with contact names 
--

Show account codes

Select this option if you would like to display any associated account codes as an additional column in this report.

<input checked="" type="checkbox"/> Show account codes 
--

Notes only


Tick this option if you want your search results to include only calls that have notes associated with them.

<input type="checkbox"/>

Notes only 


Audio only

Tick this option if you want your search results to include only calls that have an associated voice recording.

Audio only 


Scored only

Tick this option to include only calls that have been previously scored.

Scored only 


Maximum results

To limit the report's results, enter the maximum number of results you want the report to display in the `Maximum results` option, e.g. if you enter `50` in the text box provided, only 50 results will be displayed.

Maximum results 


Sort order

Choose from the `Sort order` drop-down list whether you want the results of your report to appear in ascending or descending order.

Sort order 

Sort results by

To sort your report's results by a particular column, select it from the `Sort results by` drop-down list.

Sort results by 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in.

Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

The report's results

Below is an example of this report's output in `Web` format. By clicking on the `About this report` link at the top-right corner of the

page, you can review any filters and options that have been applied to the report.

My random call selection
2012-05-17 16:14:30

[↑](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \

About this report

All Outbound Answered Missed Internal							
Date & Time ▲	Source	CLI	Route	Destination	Response	Duration	Cost
2012-03-01 15:15:43	London	02072998500	-	Tom Morrow	-	00:00:02	-
2012-03-02 08:50:06	Jean Poole	-	2062	Adam Zapel	-	00:00:44	-
2012-03-02 15:08:26	T-Mobile	07957218628	-	Claire Annette	-	00:00:10	-
2012-03-05 18:20:58	UNAVAILABLE	-	-	Tom Katz	-	00:01:02	-
2012-03-06 09:29:18	London	02073368085	-	Tom Morrow	-	00:08:43	-
2012-03-06 14:22:13	Hutchison 3G	07861384392	-	Susan Travis	12	00:02:09	-
2012-03-07 10:17:56	UNAVAILABLE	-	-	Tom Morrow	-	00:04:09	-
2012-03-07 10:53:28	Vodafone	07798607843	-	Tom Morrow	-	00:00:26	-
2012-03-07 11:09:03	London	02073836420	-	Claire Annette	-	00:01:26	-
2012-03-07 18:37:58	Adam Zapel	-	07779599573	Orange	-	00:00:01	0.030
2012-03-07 20:33:43	Ajith Tarasinghe	-	07930410804	T-Mobile	-	00:00:40	0.087
2012-03-08 08:50:06	Jean Poole	-	2062	Adam Zapel	-	00:01:16	-
2012-03-08 23:42:46	T-Mobile	07961749227	-	Ajith Tarasinghe	-	00:01:45	-
2012-03-09 07:48:28	Orange	07977404409	-	Cheri Pitts	-	00:02:42	-
2012-03-09 08:48:26	London	02078376433	-	Tanya Burrell	8	00:00:11	-
2012-03-09 10:50:23	London	02079018300	-	Cheri Pitts	-	00:02:08	-
2012-03-10 08:50:06	Jean Poole	-	2062	Adam Zapel	-	00:00:10	-
2012-03-10 15:31:56	Adam Zapel	-	02074372526	London	-	00:00:17	0.030
2012-03-10 17:08:18	London	02077935870	-	Tom Morrow	-	00:01:29	-
2012-03-11 01:00:56	London	02070108086	-	Tom Morrow	-	00:00:30	-
2012-03-11 09:14:48	Adam Zapel	-	07717813220	Vodafone	-	00:00:09	0.030
2012-03-13 09:26:38	London	02073076700	-	Cheri Pitts	-	00:01:19	-
2012-03-13 17:40:58	London	02073230660	-	Tom Katz	-	00:00:46	-
2012-03-14 10:17:56	UNAVAILABLE	-	-	Tom Morrow	-	00:00:14	-
2012-03-14 10:36:18	Adam Zapel	-	02077584475	London	-	00:00:06	0.030
2012-03-14 17:33:56	London	02071585500	-	Tom Katz	-	00:01:19	-
2012-03-14 22:01:41	London	02072263521	-	Tom Morrow	-	00:04:11	-
2012-03-15 09:59:51	Claire Annette	-	2071	Lance Boyle	-	00:01:04	-
2012-03-16 01:02:16	Adam Zapel	-	07779715284	Orange	-	00:00:39	0.085

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results.

The body of the report consists of a table showing a randomly-chosen summary of calls for the period you selected. Each column header of the table is described below:

Header	Description
Date & Time	The date and time the call started.
Source	The place from where the call originated.
CLI	The telephone number of the remote caller, for inbound calls.
Route	The information displayed in this field is determined by the type of call: <ul style="list-style-type: none"> ▪ for incoming calls, this shows the CLI of the caller; ▪ for incoming internal calls, this shows either the caller's username or extension number; ▪ for outgoing calls, this shows the dialled number.

Destination	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the name of the user whose extension answered the call, or the extension number if not available; ▪ for outgoing calls, this shows the geographical location that was dialled, or an alias if defined in your contacts list; ▪ for internal calls, this shows the extension that was dialled, enclosed in square brackets [].
Response	The length of time it took for the call to be answered (i.e. the response time).
Duration	The duration of the call (in hours, minutes and seconds).
Cost	The cost of the call.

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



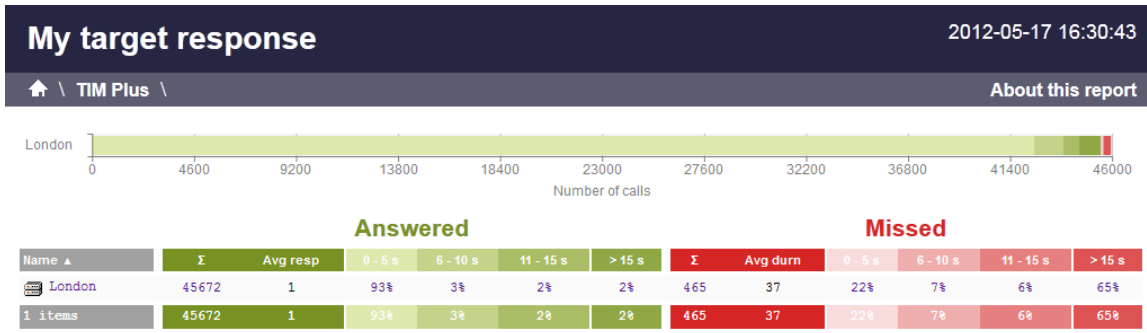
Target Response

The Target Response report

- Introduction
- Running the report
- Creating the report
- The report's results

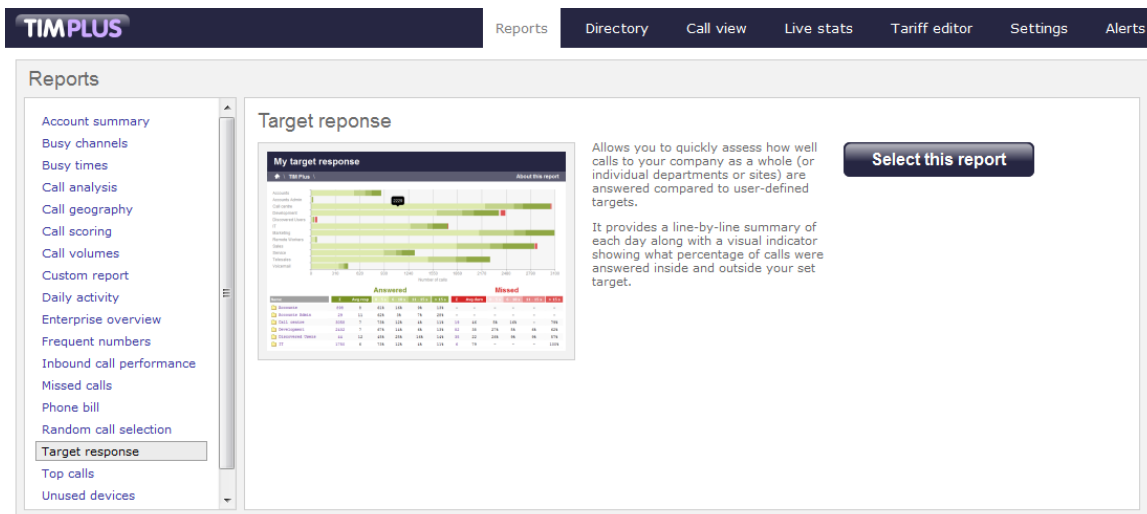
Introduction

The Target Response report enables you to assess how well calls to your company are answered, compared to user-defined targets. The report provides a visual representation as well as a line-by-line summary of the proportion of calls answered inside and outside your set targets.



Running the report

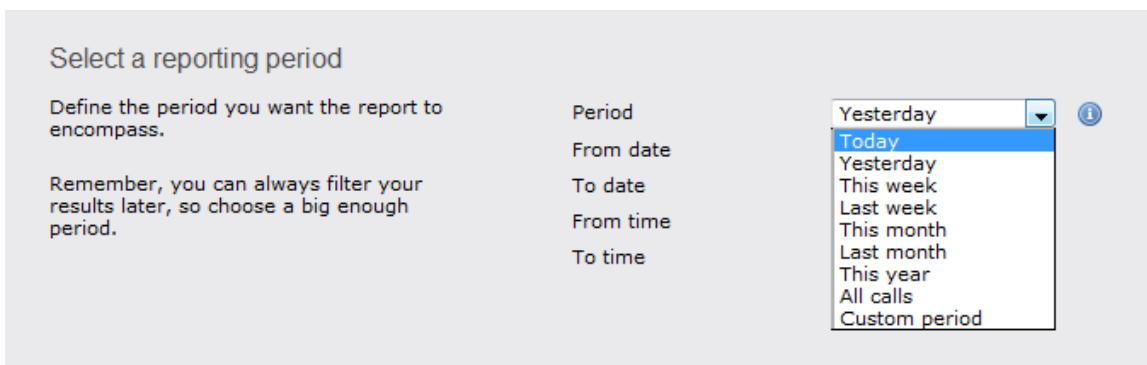
On the Reports screen, select the Target response report from the left-hand pane and click the **Select this report** button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".




There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.

Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.




In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.


Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity		
Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select (All sites) .	Site	(All sites) 
	Group	
Alternatively, select a specific site, user group, channel group, individual user or channel.	User	

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	---


Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	---

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.













User	All users	
------	-----------	---

If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report					
Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code


To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	0140	
--------------	------	---

To report on more than one account code, separate each code using a comma.


Call type

This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal, etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
-----------	-----------	---

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.


Carrier	All carriers	
---------	--------------	---

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	02072652600	
-----	-------------	---

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<2.00	
------	-------	---

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	!France*	
-------------	----------	---

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).

To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	0033	
----------------	------	---

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	>1800	
----------	-------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning 162, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the **start time** field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	--

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---





You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.

Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.

Options


Specify one or more of any additional report options shown here.

- Exclude weekends 
- Exclude transfers 
- Hide unused 
- Include internal 

Thresholds


Sort order

Sort results by

Ignore missed calls shorter than seconds 


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

 Exclude weekends 


Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

 Exclude transfers 


Hide unused

To exclude unused extensions from your report's results, select the **Hide unused** option.

 Hide unused 

Include internal

Tick this box if you want to include internal calls in your report's results.

 Include internal 


Thresholds

Use this option to define your response time target thresholds. The example below shows response time targets of 5, 10 and 20 seconds.

Sort order

Choose from the **Sort order** drop-down list whether you want the results of your report to appear in ascending or descending order.


Sort results by

To sort your report's results by a particular column, select it from the **Sort results by** drop-down list.

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter **3**.

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are **Web**, **PDF**, **Excel**, **CSV** and **XML**.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on

the **Run now** button, or schedule it for future delivery.

Your report is ready to run

Select the format that you want your report to be in.

Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Run now

Schedule for later

The report's results

Below is an example of this report's output in **Web** format. By clicking on the **About this report** link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

My target response 2012-05-17 16:30:43

[Home](#) \ **TIM Plus** \ [About this report](#)

Answered								Missed				
Name ▲	Σ	Avg resp	0 - 5 s	6 - 10 s	11 - 15 s	> 15 s	Σ	Avg durn	0 - 5 s	6 - 10 s	11 - 15 s	> 15 s
London	45672	1	93%	3%	2%	2%	465	37	22%	7%	6%	65%
1 items	45672	1	93%	3%	2%	2%	465	37	22%	7%	6%	65%

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

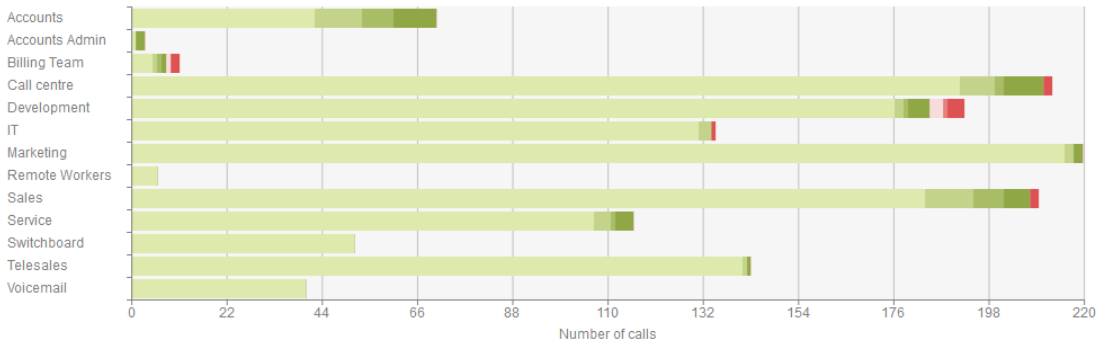
The **Web** format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results.

The body of the report consists of a table showing a summary of call information for the period you selected, grouped by entity. Each column header of the table is described below:

Header	Description
Name	The name of the entity for each line of data

<p>Answered</p>	<ul style="list-style-type: none"> ▪ Σ: The total volume of calls received for each entity ▪ Avg resp: The average response time of all answered calls in each period ▪ x-xx s: The percentage of calls that were answered within each predefined target, e.g. if 50% is displayed under the 0-5s heading, half of all calls were answered sooner than 5 seconds <p>You can define your own thresholds in the Options section of the report wizard (above)</p>
<p>Missed</p>	<ul style="list-style-type: none"> ▪ Σ: The total number of missed calls for each entity ▪ Avg durn: The average length of time a missed call rang before being abandoned ▪ x-xx s: The percentage of calls that were abandoned within each predefined target, e.g. if 50% is displayed under the 0-5s heading, half of all calls were abandoned sooner than 5 seconds <p>You can define your own thresholds in the Options section of the report wizard (above)</p>

Each entity is shown as a hyperlink which, if clicked on, re-runs the report to include only call information pertaining to that entity, allowing you to inspect the performance of specific teams and individual users.



Name	Answered						Missed					
	Σ	Avg resp	0 - 5 s	6 - 10 s	11 - 15 s	> 15 s	Σ	Avg durn	0 - 5 s	6 - 10 s	11 - 15 s	> 15 s
Accounts	70	9	60%	16%	10%	14%	-	-	-	-	-	-
Accounts Admin	3	19	33%	-	-	67%	-	-	-	-	-	-
Billing Team	8	7	63%	13%	13%	13%	3	28	33%	-	-	67%
Call centre	209	2	91%	4%	1%	4%	2	68	-	-	-	100%
Development	183	2	96%	1%	1%	3%	8	32	38%	-	13%	50%
IT	133	-	98%	2%	-	-	1	45	-	-	-	100%
Marketing	218	1	98%	1%	-	1%	-	-	-	-	-	-
Remote Workers	6	-	100%	-	-	-	-	-	-	-	-	-
Sales	206	2	88%	5%	3%	3%	2	83	-	-	-	100%
Service	115	2	92%	3%	1%	3%	-	-	-	-	-	-

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:

Top Calls

The Top Calls report

- Introduction
- Running the report
- Creating the report
- The report's results

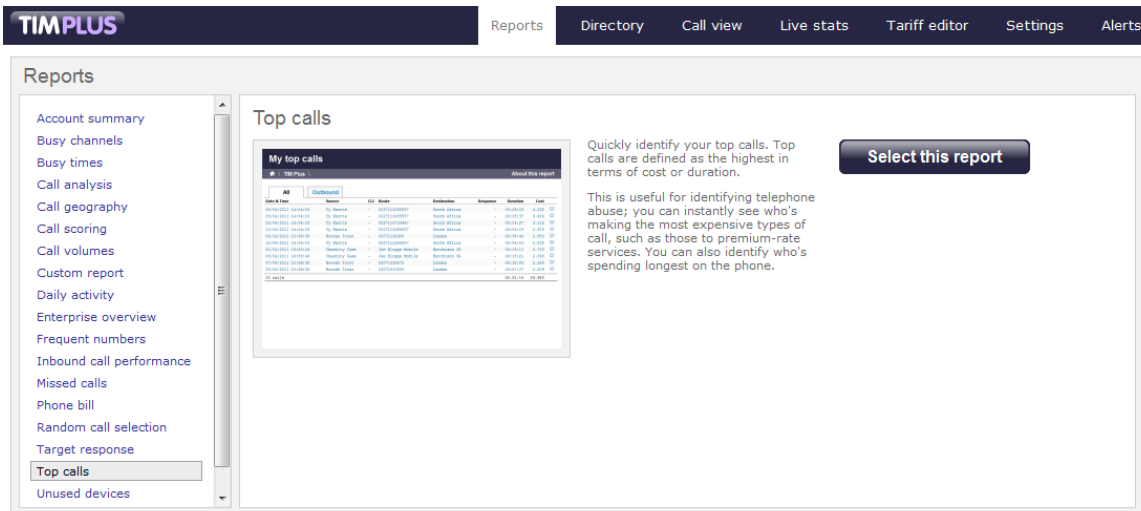
Introduction

The Top Calls report is useful for discovering unusual calling patterns and identifying potential abuse, by highlighting the longest and most costly calls made by people in your organisation.

My top calls								2012-05-17 16:23:56
↑ \ TIM Plus \ London \ Accounts \								About this report
All		Outbound						
Date & Time	Source	CLI	Route	Destination	Response	Duration	Cost	
16/05/2012 17:32:06	Mika Stai	-	76414028	Local Call	-	00:11:17	1.128	
16/05/2012 16:14:38	Ming Xao	-	01702222638	Southend-on-Sea	-	00:03:40	0.367	
16/05/2012 13:41:28	Doug Hole	-	71892748	Local Call	-	00:02:16	0.227	
16/05/2012 13:46:01	Norma Leigh	-	72942005	Local Call	-	00:02:03	0.205	
16/05/2012 17:57:06	Norma Leigh	-	01753800800	Slough	-	00:02:02	0.203	
16/05/2012 12:55:36	Al Dente	-	02074054600	London	-	00:01:21	0.135	
16/05/2012 18:20:56	Pearl E White	-	07854180499	Orange	-	00:00:53	0.115	
16/05/2012 15:24:01	Duane Pipe	-	71162017	Local Call	-	00:00:58	0.097	
16/05/2012 11:58:43	Pearl E White	-	07955872193	O2	-	00:00:43	0.093	
16/05/2012 08:13:33	Easton West	-	07956961145	T-Mobile	-	00:00:41	0.089	
10 calls						00:25:54	2.659	

Running the report

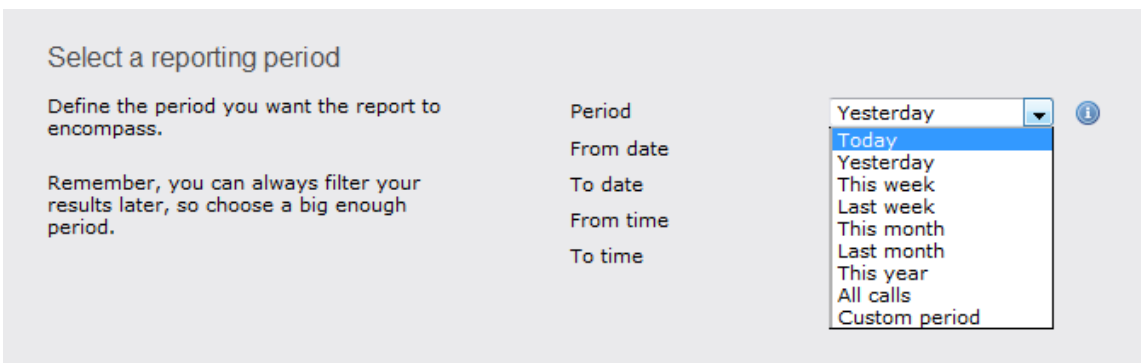
On the Reports screen, select the Top calls report from the left-hand pane and click the **Select this report** button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".




There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
--------	-------------

Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period 
From date	01 Jul 2011
To date	14 Feb 2013
From time	00 : 00 : 00
To time	23 : 59 : 59

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.

Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity

Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	--

Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	--

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	--

If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:


Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
			Start time	<input type="text"/>	
			Trunk access code	<input type="text"/>	

Account code

To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.


<input type="text"/>

Account code 

To report on more than one account code, separate each code using a comma.


Call type


This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal etc. To report on all types of call, set this to **All calls**.

Call type 

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.


Carrier 

 If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.


CLI 

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).


To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number 

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration 

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning 162, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	---


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the `start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
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Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
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You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the 9 trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.


Selecting the report options


This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.


Options


Specify one or more of any additional report options shown here.


- Exclude weekends 
- Exclude transfers 
- Don't replace numbers with contact names 
- Show account codes 
- Notes only 
- Audio only 
- Scored only 

Maximum results 

Sort data by 


Sort order 

Sort results by 

Ignore missed calls shorter than seconds 


Exclude weekends

To exclude weekend calls from your report's results, select the **Exclude weekends** option.

 Exclude weekends 


Exclude transfers

To exclude transferred calls from your report's results, select the **Exclude transfers** option.

 Exclude transfers 


Don't replace numbers with contact names

Tick this option if you do not want to replace dialled numbers, CLIs and account codes with their associated names, as defined in your web user's contacts list.

 Don't replace numbers with contact names 


Show account codes

Select this option to display any associated account codes as an additional column in this report.

 Show account codes 


Notes only

Tick this option if you want your search results to include only calls that have notes associated with them.

 Notes only 


Audio only

Tick this option if you want your search results to include only calls that have an associated voice recording.

 Audio only 


Scored only

Tick this option to include only calls that have a score associated with them, e.g. calls that have already been listened to and scored

 Scored only 


Maximum results

To limit the report's results, enter the maximum number of results you want the report to display in the **Maximum results** option, e.g. if you enter **50** in the text box provided, only 50 results will be displayed.

Maximum results	<input type="text" value="50"/>	
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Sort data by

To choose the criteria that is used in determining the top calls, select a field from the **Sort data by** drop-down list.

Sort data by	<input type="text" value="Cost"/>	
--------------	-----------------------------------	---


Sort order

Choose from the **Sort order** drop-down list whether you want the results of your report to appear in ascending or descending order.

Sort order 


Sort results by

To sort your report's results by a particular column, select it from the `Sort results by` drop-down list.

Sort results by 

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter 3 .

Ignore missed calls shorter than seconds 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the `Run now` button, or schedule it for future delivery.











Your report is ready to run

Select the format that you want your report to be in. Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

The report's results

Below is an example of this report's output in web format:

My top calls							2012-05-17 16:23:56
Home \ TIM Plus \ London \ Accounts \							About this report
<input type="button" value="All"/> <input checked="" type="button" value="Outbound"/>							
Date & Time ▲	Source	CLI	Route	Destination	Response	Duration	Cost
16/05/2012 17:32:06	Mika Stai	-	76414028	Local Call	-	00:11:17	1.128 
16/05/2012 16:14:38	Ming Xao	-	01702222638	Southend-on-Sea	-	00:03:40	0.367 
16/05/2012 13:41:28	Doug Hole	-	71892748	Local Call	-	00:02:16	0.227 
16/05/2012 13:46:01	Norma Leigh	-	72942005	Local Call	-	00:02:03	0.205 
16/05/2012 17:57:06	Norma Leigh	-	01753800800	Slough	-	00:02:02	0.203 
16/05/2012 12:55:36	Al Dente	-	02074054600	London	-	00:01:21	0.135 
16/05/2012 18:20:56	Pearl E White	-	07854180499	Orange	-	00:00:53	0.115 
16/05/2012 15:24:01	Duane Pipe	-	71162017	Local Call	-	00:00:58	0.097 
16/05/2012 11:58:43	Pearl E White	-	07955872193	O2	-	00:00:43	0.093 
16/05/2012 08:13:33	Easton West	-	07956961145	T-Mobile	-	00:00:41	0.089 
10 calls						00:25:54	2.659

The **web** format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. By clicking on the **About this report** link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

The report consists of a table containing a list of your top calls, as defined by your selection criteria. Each column header of the table is described below:

Header	Description
Date & Time	The date and time the call started
Source	The place from where the call originated
CLI	The telephone number of the remote caller for inbound calls
Route	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the CLI of the caller ▪ for incoming internal calls, this shows either the caller's username or extension number ▪ for outgoing calls, this shows the dialled number
Destination	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the name of the user whose extension answered the call, or the extension number if not available ▪ for outgoing calls, this shows the geographical location that was dialled, or an alias if defined in your contacts list ▪ for internal calls, this shows the extension that was dialled, enclosed in square brackets []
Response	The length of time it took for the call to be answered (i.e. the response time)
Duration	The duration of the call (in hours, minutes and seconds)
Cost	The cost of the call

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Unused Devices

The Unused Devices report

- Introduction
- Running the report
- Creating the report
- The report's results

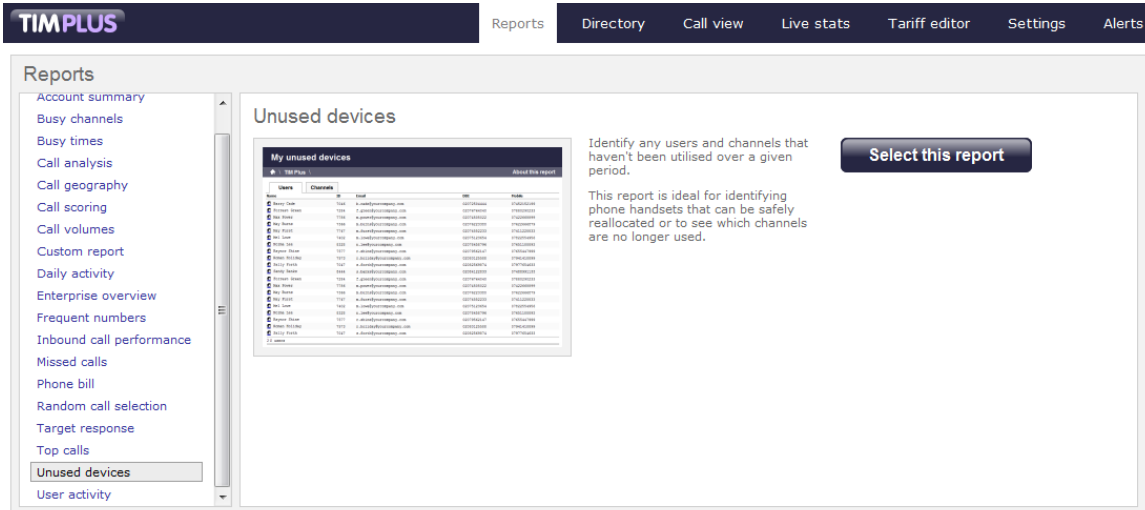
Introduction

The Unused Devices report identifies any users and channels that haven't been utilised in a given period of time. It is useful for identifying telephone handsets that can be safely reallocated to other users or which channels are no longer used.

My unused devices						2012-05-17 16:14:30
Home \ TIM Plus \ London \ Accounts \						About this report
Users		Channels				
Name ▲	ID	Email	DDI	Mobile		
Danny Lehman	7300	-	-	-		
Jake Bolger	7289	-	-	-		
Jo Balham	7311	-	-	-		
Jon Southgate	1962	js@abc.com	-	-		
Lucy Smart	7081	-	-	-		
Malcolm Hughes	11043	-	-	-		
Marie Barrett	7725	-	-	-		
Michael Faulty	7210	-	-	-		
Mohan Patel	7089	-	-	-		
Natasha Levy	7305	-	-	-		
Oisin Kennedy	7294	-	-	-		
Peta Lacey	1946	-	-	-		
Phil Rogers	7209	-	-	-		
Ros Leftley	7208	-	-	-		
Sarah Baker	7309	-	-	-		
Sean Mason	7297	-	-	-		
Tina Ridgley	7310	-	-	-		
17 users						

Running the report

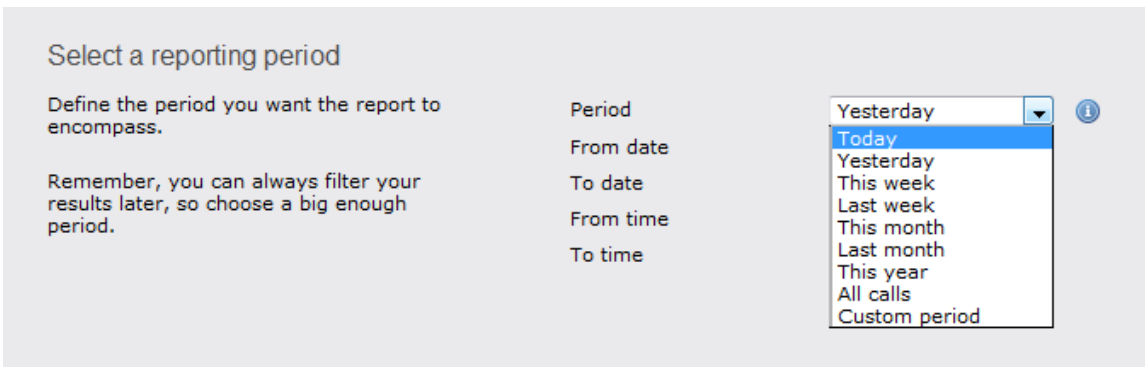
On the Reports screen, select the Unused devices report from the left-hand pane and click the **Select this report** button.



A new window will appear, where you can set the parameters of your report.

Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".



There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.

Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period (i)

From date: 01 Jul 2011

To date: 14 Feb 2013

From time: 00 : 00 : 00

To time: 23 : 59 : 59

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.

Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity

Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	(i)
Group		(i)
User		(i)

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site: (i)


Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group: (i)

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User 

- If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.


Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.


Selecting the report options


You can limit the results of your report by choosing one or more of the following filters:

Options

Specify one or more of any additional report options shown here.

Show "Do not log" devices 

Sort order 

Sort results by 


Show "Do not log" devices

Tick this box if you would like to include devices whose status is set to not log calls.

Show "Do not log" devices 


Sort order

Choose from the `sort order` drop-down list whether you want the results of your report to appear in ascending or descending order.

Sort order 

Sort results by

To sort your report's results by a particular column, select it from the `sort results by` drop-down list.

Sort results by 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in.

Report format

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Run now

Schedule for later

The report's results

Below is an example of this report's output in web format, showing both unused users and unused channels:

My unused devices
2012-05-17 16:14:30

Home \ TIM Plus \ London \ Accounts \
About this report

Users

Channels

Name ▲	ID	Email	DDI	Mobile
Danny Lehman	7300	-	-	-
Jake Bolger	7289	-	-	-
Jo Balham	7311	-	-	-
Jon Southgate	1962	js@abc.com	-	-
Lucy Smart	7081	-	-	-
Malcolm Hughes	11043	-	-	-
Marie Barrett	7725	-	-	-
Michael Faulty	7210	-	-	-
Mohan Patel	7089	-	-	-
Natasha Levy	7305	-	-	-
Oisin Kennedy	7294	-	-	-
Peta Lacey	1946	-	-	-
Phil Rogers	7209	-	-	-
Ros Leftley	7208	-	-	-
Sarah Baker	7309	-	-	-
Sean Mason	7297	-	-	-
Tina Ridgley	7310	-	-	-

17 users

My unused devices
2012-05-17 16:14:30

Home \ TIM Plus \ London \ Accounts \
About this report

Users

Channels

[Show all](#)
⏪
⏩
1 of 2
⏪
⏩

Name	ID
10004	10004
25001	25001
25002	25002
25003	25003
25004	25004
25005	25005
25006	25006
25007	25007
25008	25008
25009	25009

The web format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results. By clicking on the [About this report](#) link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated

- the name of the report, if applicable

The results will display as a paginated list of unused devices with each type of device being grouped in its own tab:

The **Users** tab shows the following information:

Header	Description
Name	The name of the user
ID	The extension number associated with the user
Email	The e-mail address associated with the user
DDI	The DDI associated with the user, if available
Mobile	The mobile number associated with the user, if available

The **Channels** tab shows the following information:

Header	Description
Name	The name of the channel
ID	The ID associated with the channel

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



User Activity

The User Activity report

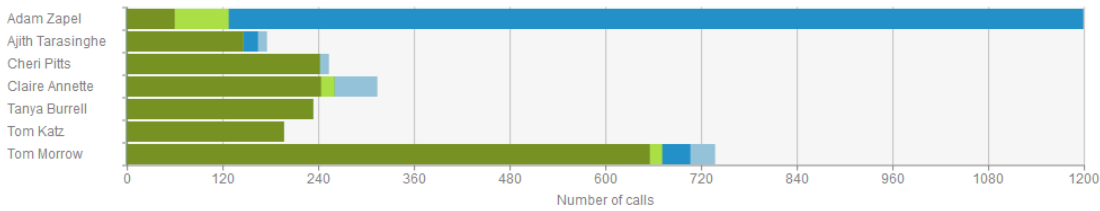
- Introduction
- Running the report
- Creating the report
- The report's results

Introduction

The User Activity report provides a comprehensive summary of internal and external call activity - both inbound and outbound - for each site, group or user. It is also possible to drill down into each entity to obtain the same call information at a more detailed level.

My user activity 2012-05-17 16:14:30

Home \ TIM Plus \ London \ Accounts \ About this report



Name	Inbound				Outbound				Totals		
	Σ	Ext duration	Σ	Int duration	Σ	Ext duration	Σ	Int duration	Σ	Duration	Cost
Adam Zapel	57	00:40:38	66	00:42:17	1036	05:47:46	-	-	1159	07:10:41	54.307
Ajith Tarasinghe	141	03:56:34	-	-	17	00:08:06	11	00:01:12	169	04:05:52	1.100
Cheri Pitts	234	05:43:50	-	-	-	-	11	00:01:13	245	05:45:03	-
Claire Annette	235	06:31:57	16	00:01:23	-	-	52	00:41:23	303	07:14:43	-
Tanya Burrell	225	00:25:42	-	-	-	-	-	-	225	00:25:42	-
Tom Katz	190	06:21:10	-	-	-	-	-	-	190	06:21:10	-
Tom Morrow	633	17:13:44	15	00:01:23	35	00:11:32	30	00:04:22	713	17:31:01	1.927
7 items	1715	40:53:35	97	00:45:03	1088	06:07:24	104	00:48:10	3004	48:34:12	57.334

Running the report

On the Reports screen, select the Enterprise overview report from the left-hand pane and click the **Select this report** button.

A new window will appear, where you can set the parameters of your report.


Selecting the reporting period

For each report, you must specify a time span that covers the calls you want the report to include. This is known as the "reporting period".

There are several preset reporting periods available for selection, based on the standard Gregorian calendar. The following table describes how the start and end times are defined for each preset period:

Period	Description
Today	The start and end dates are set to the current date. The start time is set to 00:00:00 and the end time to 23:59:59.
Yesterday	The start and end dates are set to the current date minus one day. The start time is set to 00:00:00 and the end time to 23:59:59.
This week	The start date is set to the first day of the current week (normally Monday). The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last week	The start date is set to the date of the last Monday, and the end date is set to the start date plus seven days. The start time is set to 00:00:00 and the end time to 23:59:59.
This month	The start date is set to the first day of the current month. The end date is set to the current day. The start time is set to 00:00:00 and the end time to the current time.
Last month	The start date for this period is set in three stages: The day is set to the first day of the month. The month is set to the previous month. The year is set to the current year, unless it is currently January, in which case, the previous year is used. The start and end times are set to 00:00:00 and 23:59:59 respectively.
This year	The start date is set to the first day of the first month of the current year, whilst the end date is set to today's date. The start and end times are set to 00:00:00 and 23:59:59 respectively.
All calls	The start and end dates and times are set to the dates and times of the first and last call in the entire call database, respectively.

In addition to the presets described above, it is possible to specify a custom reporting period by choosing **Custom period** from the **Period** drop-down list and specifying your own **Start date**, **Start time**, **End date** and **End time** of the period you want to report on.

Period	Custom period	
From date	01 Jul 2011	
To date	14 Feb 2013	
From time	00 : 00 : 00	
To time	23 : 59 : 59	

Once you have set the reporting period, click on the **Next** button to set additional report parameters and options, or select the **Finish** button to run the report immediately.

Selecting the reporting entity

The **Reporting entity** parameter allows you to select the part of your organisation whose calls the report should include, e.g. a site, a group or an individual user.

Choose a reporting entity

Select a specific section of your organisation whose calls will feature in the report. To run the report across your entire organisation, select **(All sites)**.

Alternatively, select a specific site, user group, channel group, individual user or channel.

Site	(All sites)	
Group		
User		

Site

To report on a particular site, select it from the drop-down list or select **All sites**.

Site	All sites	
------	-----------	--

Group

If a site has been selected, you are able to further limit the report's results by selecting a group from the drop-down list.

Group	All groups	
-------	------------	--

User

If both a site and group have been selected, you can further limit the report's results to include only calls involving a particular user, by selecting that user from the drop-down list.

User	All users	
------	-----------	--

If your web account is restricted to a specific site or group, only those entities to which you have access will be available in the drop-down lists.

Once you have selected the scope of your report, click on the **Next** button to set additional report parameters and options, or to run the report immediately, click the **Finish** button.

Selecting the report filters

You can limit the results of your report by choosing one or more of the following filters:

Filter the results of the report

Account code	<input type="text"/>		Dialled number	<input type="text"/>	
Call type	All calls		Duration	<input type="text"/>	
Carrier	(All carriers)		LCR code	<input type="text"/>	
CLI	<input type="text"/>		Response	<input type="text"/>	
Cost	<input type="text"/>		Start time	<input type="text"/>	
Destination	<input type="text"/>		Trunk access code	<input type="text"/>	

Account code

To produce a report consisting only of calls that were made using a particular account code, enter the account code in the field provided.

Account code	0140
--------------	------



To report on more than one account code, separate each code using a comma.

Call type

This filter allows you to define the type of call you want to report on, in terms of where the call originated and where it was delivered, e.g. incoming, outgoing, internal etc. To report on all types of call, set this to **All calls**.

Call type	All calls	
-----------	-----------	--

Carrier

If you use more than one carrier, you can limit the results to include only calls that were made using a specific carrier.

Carrier	All carriers	
---------	--------------	--



If you use only one carrier, there will be no drop-down list available and no option to choose a carrier.

CLI

Calling Line Identification (CLI) is the telephone number of the remote caller in an incoming call scenario.

You can report on calls that originate from a specific CLI or those whose CLI matches a particular pattern of digits. For example, to report on all incoming calls from Tri-Line, you could enter **02072652600**.

CLI	02072652600	
-----	-------------	--

You can use the **!** symbol to explicitly exclude a CLI from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls from Tri-Line, but include all others, you could use **!020726526***. To report on more than one CLI, use a comma to separate each entry.

Cost

You can define a cost filter to include calls above or below specific values by entering your criteria, as shown below:

Cost	<2.00	
------	-------	--

You can specify a cost range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Destination

If you want to filter calls to a specific, known destination, type the name of the destination in the text box provided. This filter accepts the **!** and ***** symbols for excluding values and specifying partial matches, respectively.

For example, if you wanted to exclude all calls to France, you could enter **!France***, as shown below:

Destination	!France*	
-------------	----------	--

Dialled number

To filter calls to a specific dialled number, type it in the text box provided. The dialled number is defined as the number that is dialled (in the case of an outbound call), or the DDI number that the remote party dialled to reach a particular extension or group (in the case of an inbound call).


To filter calls to a specific area, a partial number can be entered (e.g. **0033** for calls to France).

Dialled number	0033	
----------------	------	--

You can use the **!** symbol to explicitly exclude a dialled number from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls to Tri-Line, but include all others, you could use **!020726526***. To report on more than one dialled number, use a comma to separate each entry.

Duration

To filter calls above or below a particular duration, enter the desired duration in seconds.

Duration	<input type="text" value=">1800"/>	
----------	---------------------------------------	---

You can specify a duration range by using the **-** symbol; to specify limits, use the comparison operators, **>**, **<**, and **!**.

In the above example, the report will return only calls longer than 1800 seconds (30 minutes).

LCR code

To filter your results to include only calls that used a Least Cost Routing (LCR) code, enter it in the text box provided.

LCR code	<input type="text" value="162"/>	
----------	----------------------------------	---

You can use the **!** symbol to explicitly exclude a LCR code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using all LCR codes beginning **162**, you could enter **!162***. To report on more than one LCR code, use a comma to separate each entry.

Response

This option allows you to filter calls based on their response time, measured in seconds. Specify the desired response time threshold in the text box provided.

Response time	<input type="text" value=">10"/>	
---------------	-------------------------------------	--


In the above example, the search results will display calls that have a response time greater than 10 seconds.

You can specify a response time range by using the **-** symbol and; to specify limits, use the comparison operators, **>**, **<**, and **!**.

Start time

This option allows you to filter calls based on the time the call started. Specify the start time in the text box provided using the **hh:mm:ss** format.

For example, to include only calls that began after 10 am, you could enter **10:00:00** in the `start time` field, as shown below:

Start time	<input type="text" value="10:00:00"/>	
------------	---------------------------------------	---

Trunk access code

If your telephone system uses trunk access codes to connect calls using specific channels, you can limit your report's results to include only calls made using those codes. Specify the trunk access code in the text box provided.

Trunk access code	<input type="text" value="9"/>	
-------------------	--------------------------------	---




You can use the **!** symbol to explicitly exclude a trunk access code from the report's results, and/or the ***** symbol as a wildcard in digit pattern matching. For example, to exclude calls made using the **9** trunk access code, you could enter **!9**. To report on more than one trunk access code, use a comma to separate each entry.




Selecting the report options

This section enables you to further narrow down your report results, by excluding certain types of calls. It also allows you to sort the report's results in a particular manner.

Options

Specify one or more of any additional report options shown here.

Exclude weekends 
 Exclude transfers 
 Hide unused 

Sort order 
 Sort results by 
 Ignore missed calls shorter than seconds 


Exclude weekends

To exclude weekend calls from your report's results, select the `Exclude weekends` option.

Exclude weekends 


Exclude transfers

To exclude transferred calls from your report's results, select the `Exclude transfers` option.

Exclude transfers 

Hide unused

To exclude unused extensions from your report's results, select the `Hide unused` option.

Hide unused 

Sort order

Choose from the `Sort order` drop-down list whether you want the results of the report to appear in ascending or descending order.

Sort order 


Sort results by

To sort your report's results by a particular column, select it from the `Sort results by` drop-down list.

Sort results by 

Ignore short missed calls

Missed calls below a certain duration can sometimes pollute the meaning of a report's results. To exclude such short calls from your report, enter a duration threshold in the text box provided, e.g. to ignore calls below 3 seconds, enter 3 .

Ignore missed calls shorter than seconds 

Selecting the report format

This section allows you to choose the media format of your completed report. The formats available are `Web`, `PDF`, `Excel`, `CSV` and `XML`.

More details about each report format are available in the [Setting the report format](#) section above.

Creating the report

When you have selected a reporting period and have chosen any filters and options, you can either run the report immediately by clicking on the **Run now** button, or [schedule it for future delivery](#).

Your report is ready to run

Select the format that you want your report to be in.

You can now either run the report immediately, or schedule it to run once, or at regular intervals, in the future.

Report format:

Run now

Schedule for later

The report's results

The results of the report show comprehensive call summary information - organised by call type - for the report entity you selected. By clicking on the [About this report](#) link at the top-right corner of the page, you can review any filters and options that have been applied to the report.

As with all reports produced by TIM Plus, each page of the report includes the following information:

- the report's title
- the date and time that the report was generated
- the name of the report, if applicable

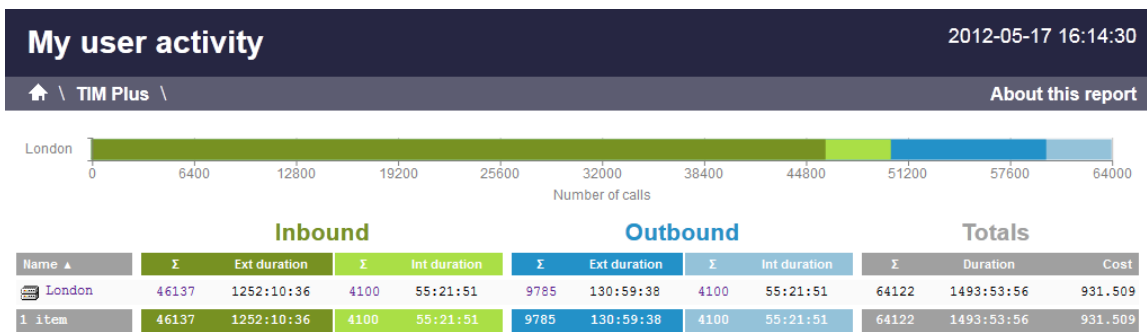
The **web** format is the most interactive of all formats: all column headers are click-sortable and most graphical and tabular elements can be drilled down into, allowing deeper analysis of your results.

Results are shown for each organisational level: site, group and individual user, where a table is shown with the following headers:

Header	Description
Name	The name of the entity for each line of data
Inbound	<ul style="list-style-type: none"> ▪ Σ: The number of inbound answered calls, including transferred calls ▪ Ext duration: The total duration of all inbound external calls (in hours, minutes and seconds) ▪ Int duration: The total duration of all inbound internal calls (in hours, minutes and seconds)

<p>Outbound</p>	<ul style="list-style-type: none"> ▪ Σ: The number of outbound calls made ▪ Ext duration: The total duration of all outbound external calls (in hours, minutes and seconds) ▪ Int duration: The total duration of all outbound internal calls (in hours, minutes and seconds)
<p>Totals</p>	<ul style="list-style-type: none"> ▪ Σ: The total number of calls including all inbound and outbound, both internal and external ▪ Duration: The total duration of time spent on all inbound and outbound calls ▪ Cost: The total cost of all calls

Site Level



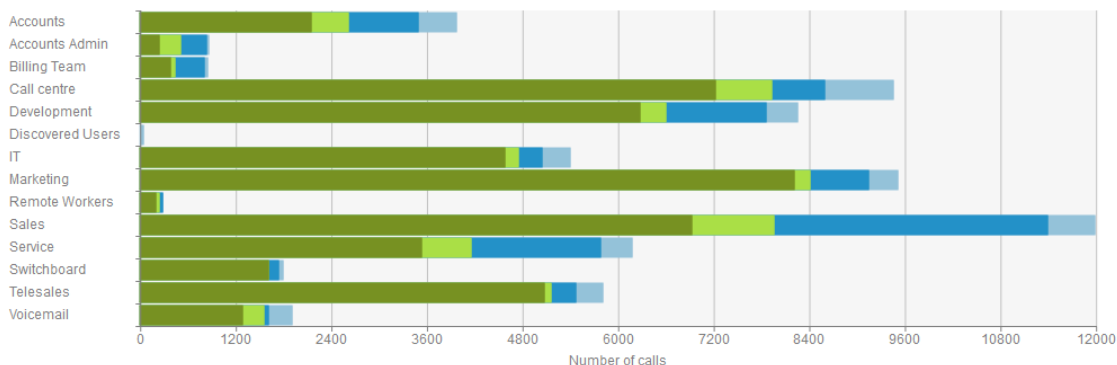
Group level

My user activity

2012-05-17 16:14:30

[Home](#) \ [TIM Plus](#) \ [London](#) \

[About this report](#)



Name ▲	Inbound				Outbound				Totals		
	Σ	Ext duration	Σ	Int duration	Σ	Ext duration	Σ	Int duration	Σ	Duration	Cost
Accounts	2077	39:14:02	455	04:43:24	852	20:42:23	457	04:34:54	3841	69:14:43	114.224
Accounts Admin	226	05:29:02	271	05:51:20	305	05:21:51	28	00:14:04	830	16:56:17	34.801
Billing Team	374	05:32:41	53	00:48:13	354	03:04:10	34	00:21:31	815	09:46:35	23.187
Call centre	6983	185:34:44	682	09:27:18	648	10:26:12	840	16:20:27	9153	221:48:41	58.739
Development	6072	153:01:03	314	03:03:38	1221	09:32:01	376	04:52:50	7983	170:29:32	76.876
Discovered Users	-	-	-	-	-	-	46	00:46:03	46	00:46:03	-
IT	4431	154:24:48	161	01:02:56	290	07:46:17	336	04:54:17	5218	168:08:18	44.065
Marketing	7942	245:38:46	192	02:00:30	709	11:19:41	355	03:54:53	9198	262:53:50	61.085
Remote Workers	194	00:59:28	45	00:14:29	29	00:12:20	-	-	268	01:26:17	1.128

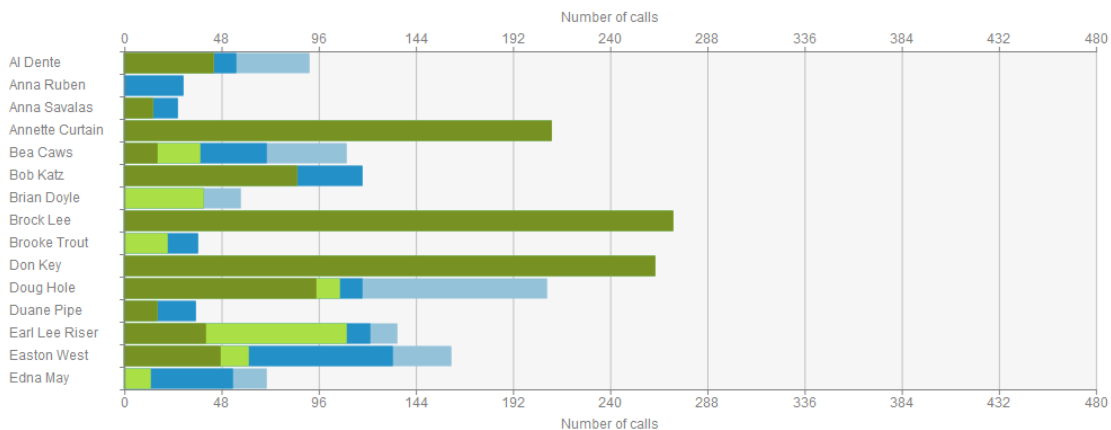
Individual user level

My user activity

2012-05-17 16:14:30

[Home](#) \ [TIM Plus](#) \ [London](#) \ [Accounts](#) \

[About this report](#)



Name ▲	Inbound				Outbound				Totals		
	Σ	Ext duration	Σ	Int duration	Σ	Ext duration	Σ	Int duration	Σ	Duration	Cost
Al Dente	44	01:14:58	-	-	11	00:00:50	36	00:09:29	91	01:25:17	0.330
Anna Ruben	-	-	-	-	29	00:06:16	-	-	29	00:06:16	1.084
Anna Savalas	14	00:21:48	-	-	12	02:15:05	-	-	26	02:36:53	9.091
Annette Curtain	210	07:31:55	-	-	-	-	-	-	210	07:31:55	-
Bea Caws	16	00:10:25	21	00:02:16	33	01:17:00	39	00:11:02	109	01:40:43	5.228
Bob Katz	85	01:24:58	-	-	32	00:12:51	-	-	117	01:37:49	1.620
Brian Doyle	-	-	39	00:05:11	-	-	18	00:12:11	57	00:17:22	-

Itemised call list

When drilling down into an individual user, the report style changes to an itemised call list rather than a call summary table:

My user activity

2012-05-17 16:07:50
↑ \ TIM Plus \ London \ Accounts \ Al Dente \
About this report

All Outbound Answered Missed Internal							
Date & Time	Source	CLI	Route	Destination	Response	Duration	Cost
16/05/2012 10:41:21	Al Dente	-	07956186198	T-Mobile	-	00:00:34	0.074
16/05/2012 10:42:18	Jason Myers	-	2042	Al Dente	-	00:00:21	-
16/05/2012 10:47:23	David Ellis	-	2042	Al Dente	-	00:03:23	-
16/05/2012 10:59:51	Orange	07854181304	-	Al Dente	21	00:00:31	-
16/05/2012 11:09:53	Al Dente	-	02076132858	London	-	00:00:04	0.030
16/05/2012 11:42:13	Grace Harper	-	2042	Al Dente	-	00:01:58	-
16/05/2012 11:52:21	Sam Thornton	-	2042	Al Dente	-	00:00:14	-
16/05/2012 12:55:36	Al Dente	-	02074054600	London	-	00:01:21	0.135
16/05/2012 15:13:18	Orange	07967460922	-	Al Dente	4	00:00:47	-
16/05/2012 15:14:16	Orange	07854180689	-	Al Dente	43	00:00:30	-
16/05/2012 16:44:53	Warren Peace	-	2042	Al Dente	-	00:01:16	-
16/05/2012 17:38:36	T-Mobile	07958108040	-	Al Dente	61	00:00:17	-
16/05/2012 18:36:21	Al Dente	-	07854181108	Orange	-	-	0.030
13 calls						00:11:16	0.269

The column headers of the itemised call list are as follows:

Header	Description
Date & Time	The date and time the call started
Source	The place from where the call originated
CLI	The telephone number of the remote caller for inbound calls
Route	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the CLI of the caller ▪ for incoming internal calls, this shows either the caller's username or extension number ▪ for outgoing calls, this shows the dialled number
Destination	<p>The information displayed in this field is determined by the type of call:</p> <ul style="list-style-type: none"> ▪ for incoming calls, this shows the name of the user whose extension answered the call, or the extension number if not available ▪ for outgoing calls, this shows the geographical location that was dialled, or an alias if defined in your contacts list ▪ for internal calls, this shows the extension that was dialled, enclosed in square brackets []
Response	The length of time it took for the call to be answered (i.e. the response time)

Duration	The duration of the call (in hours, minutes and seconds)
Cost	The cost of the call

To modify your report to cover a larger organisational scope, click on an element of the breadcrumb as shown below:



Directory

Directory overview

The Directory is the place where all of your sites, groups, users and channels are configured. In here, objects can be added, moved around your organisation and be inspected and modified.

To access the Directory, select the **Directory** tab from the main menu, as shown below:

Name	Extension	Email address	Mobile	Direct line	All extension
Anna Beck	2013			02075263300	<input type="checkbox"/>
Anna Ruben	1020				<input type="checkbox"/>
Annette Curtain	13406				<input type="checkbox"/>
Barry Cade	7046			02072651111	<input type="checkbox"/>
Bob Katz	1966	bkatz@tri-line.com		02030124578	<input type="checkbox"/>
Brian Doyle	2083				<input type="checkbox"/>
Brooke Trout	3105				<input type="checkbox"/>
Doug Hole	3803				<input type="checkbox"/>
Duane Pipe	2050				<input type="checkbox"/>

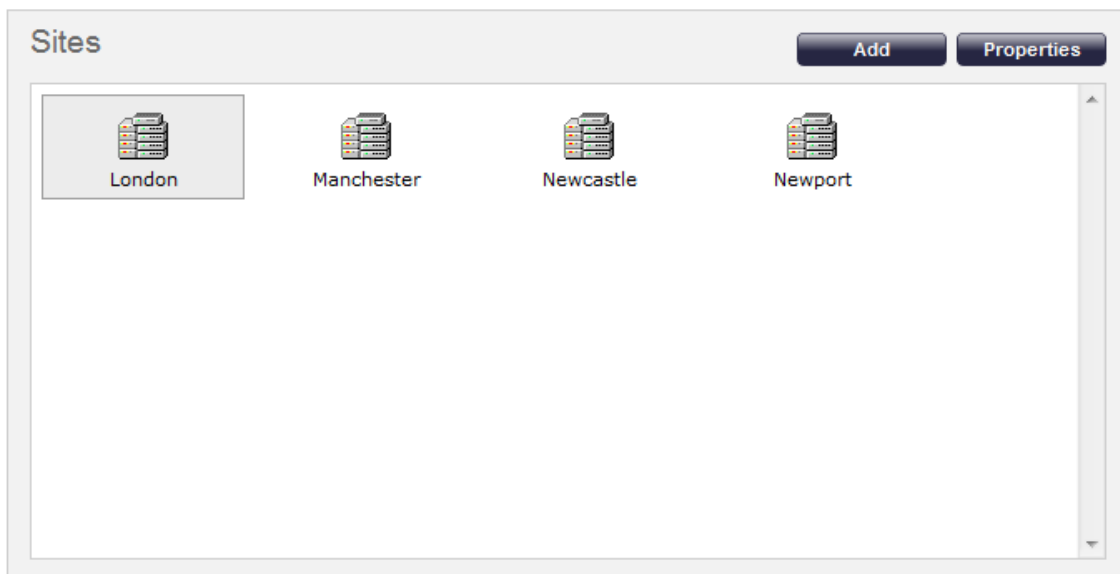


If you are logged in as a standard web user whose access is restricted to a specific group, the **Directory** tab will not be displayed. For administrative privileges, contact your system maintainer.

The Directory screen contains three panels, as detailed below:

Sites

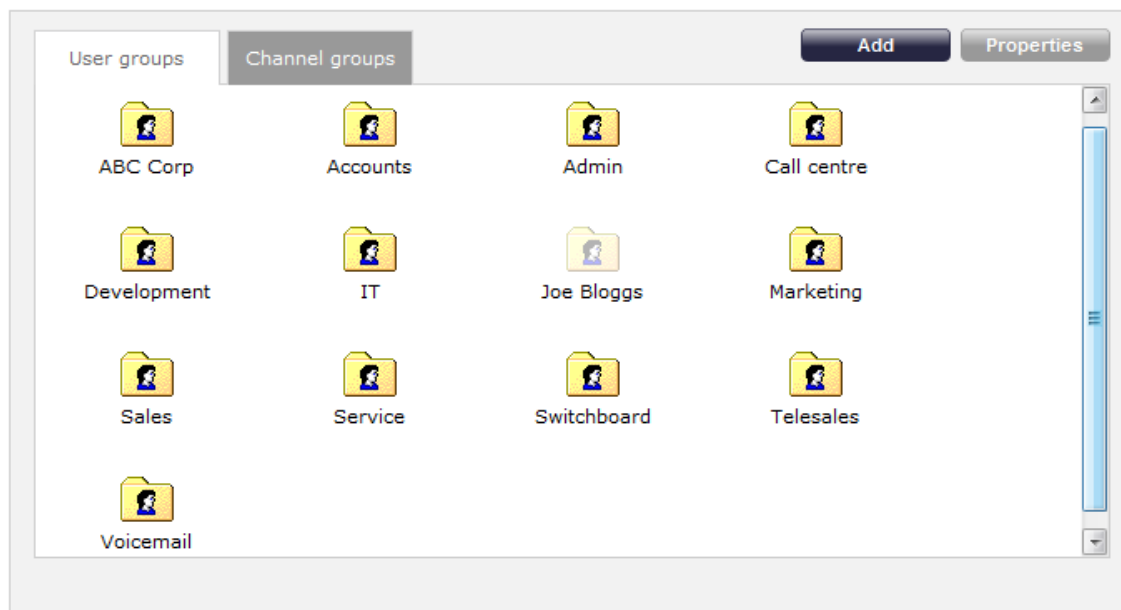
The **Sites** panel is located at the top-left of the Directory screen. The function of a site object is to acquire call logging data from a telephone system, as well as serving as a representation of a hierarchical level in your organisation. TIM Plus allows the logging of data from up to five telephone systems and a site object must be configured for each one.



For more information, click on the [Sites](#) page.

Groups

The **Groups** panel is located at the top-right of the Directory screen and contains groups of users (extensions) and channels (trunks), with each type of group divided into separate tabs. By selecting a tab, all of the groups of that type will be displayed in the panel.



For more information, click on the [Groups](#) page.

Contents

The **Contents** panel is located at the bottom-half of the Directory screen. This contains the individual objects belonging to the previously-selected user or channel group.

Name	Extension	Email address	Mobile	Direct line	Alt extension
Anna Beck	2013			02075263300	
Anna Ruben	1020				
Annette Curtain	13406				
Barry Cade	7046			02072651111	
Bob Katz	1966	bkatz@tri-line.com		02030124578	
Brian Doyle	2083				
Brooke Trout	3105				
Doug Hole	3803				
Duane Pipe	2050				
Earl Lee Riser	3026				
Easton West	1978				
Edna May	2084				
Forrest Green	7284				

For more information, click on the [Contents](#) page.

Sites


Sites overview

Sites overview

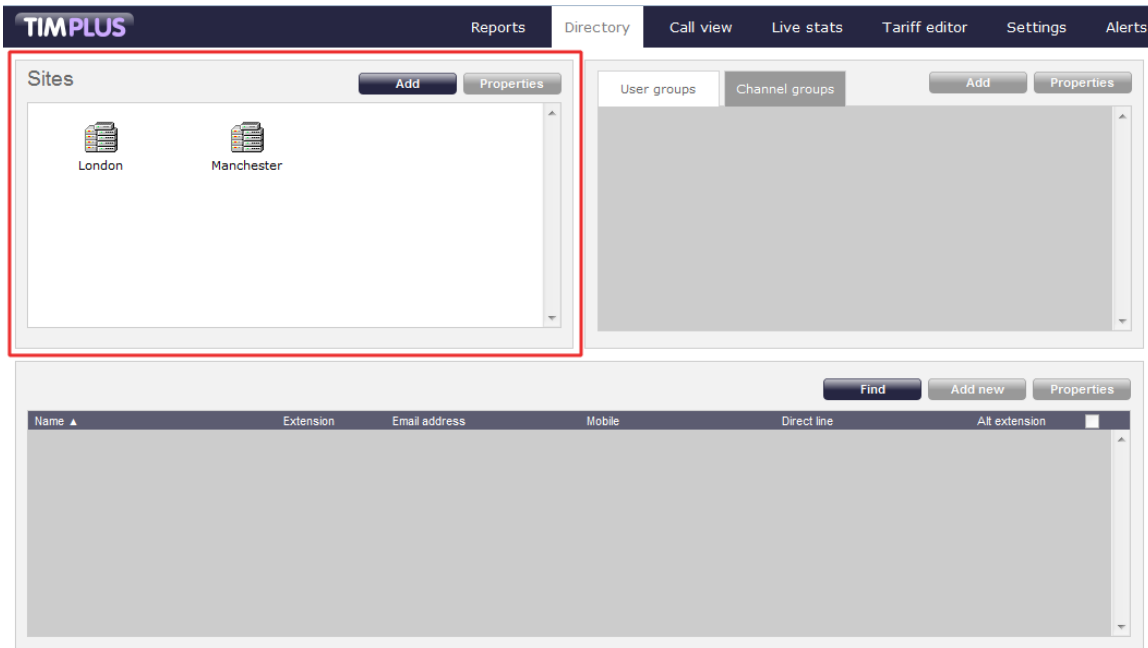
- [What is a site?](#)
- [Adding a site](#)
- [Deleting a site](#)

What is a site?

The function of a site object is to acquire call logging data from a telephone system, as well as serving as a representation of a hierarchical level in your organisation. TIM Plus allows the logging of data from up to five telephone systems and a site object must be configured for each one.

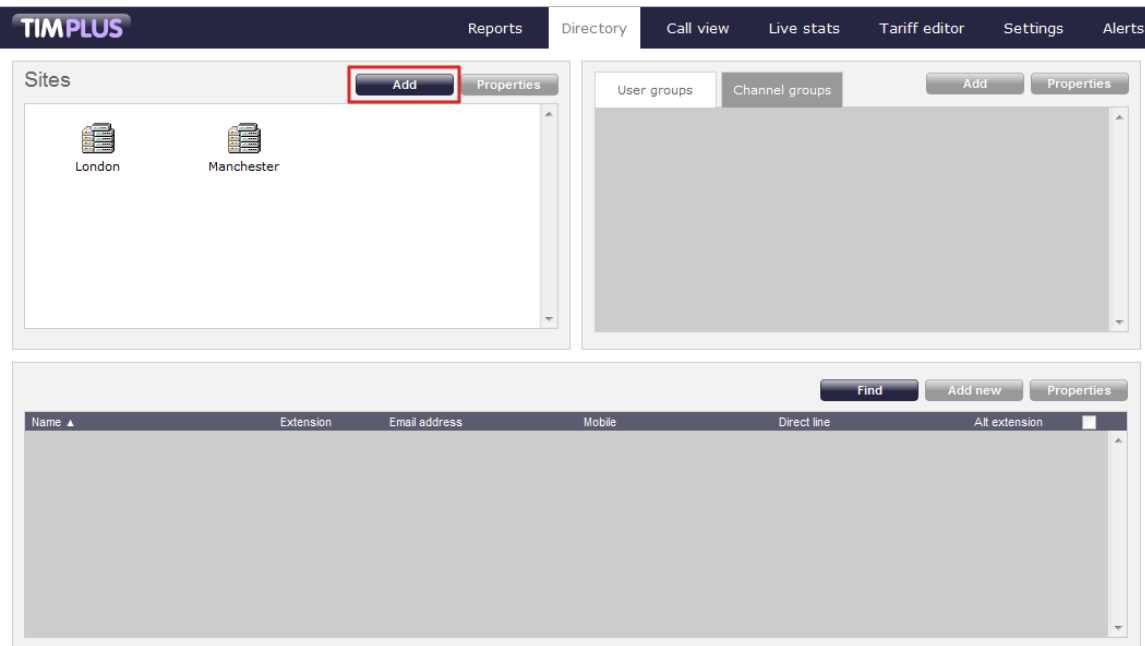
 If your organisation makes use of more than five telephone systems, you should upgrade to the TIM Enterprise product.

The **sites** panel is located on the top-left side of the Directory screen.



Adding a site

To add a site to the Directory, click on the **Add** button at the top-left of the panel, as shown below:



The **site properties** window will appear, where you can enter the site's name, the PBX make and model, as well as the connection method used by your telephone system to deliver call logging data. For information on how to configure the rest of the site's properties, refer to the **Configuring a site** section.

Site properties

PBX Options Inactivity LCR Tariff Alarms

Name Paris

PBX model 3Com NBX R6

Connection method No connection required

Cancel Add

When you have configured the site's properties, click on the **Add** button to add the site to the Directory.

TIMPLUS Reports Directory Call view Live stats Tariff editor Settings Alerts

Sites Add Properties

London Manchester Paris

User groups Channel groups Add Properties

No groups in selected site

Find Add new Properties

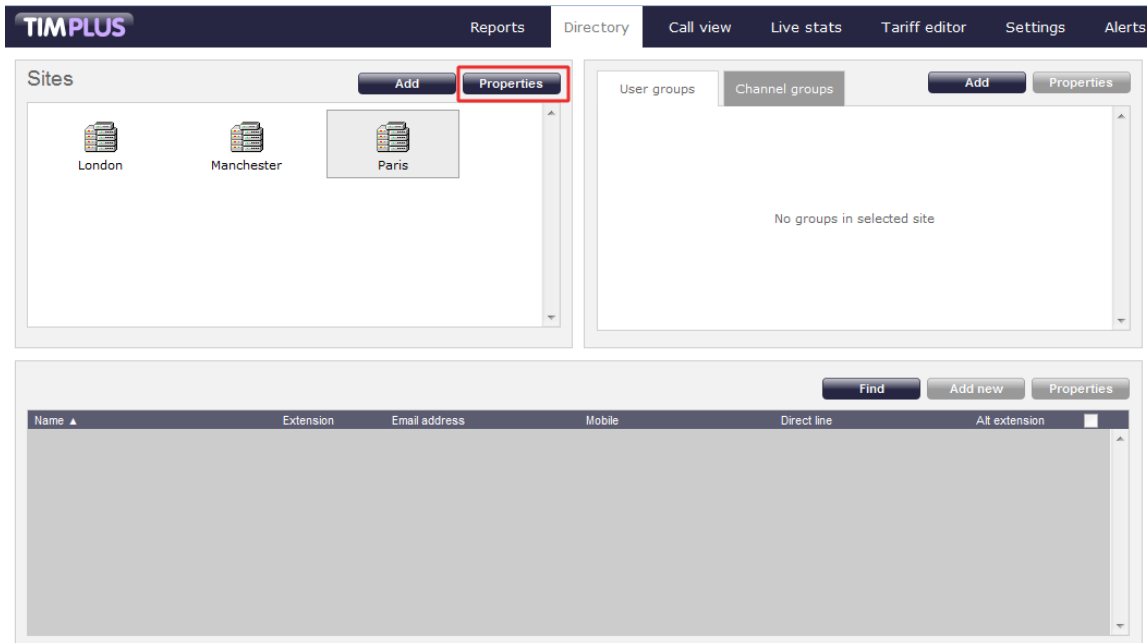
Name ▲	Extension	Email address	Mobile	Direct line	Alt extension
--------	-----------	---------------	--------	-------------	---------------

Deleting a site

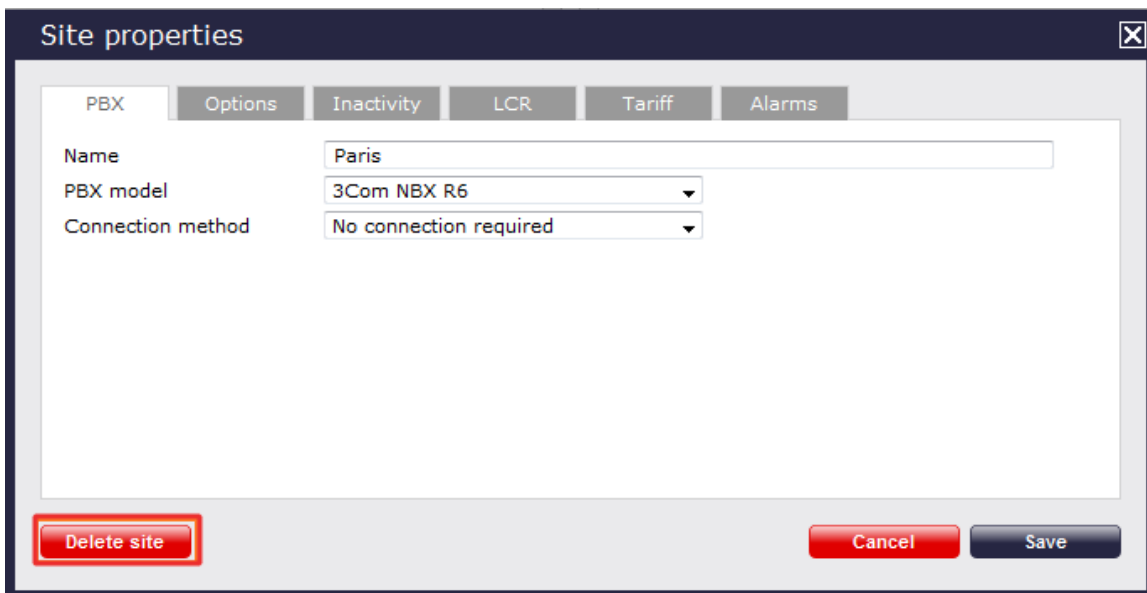


When you delete a site, you are deleting all the information contained within that site, including its users and channels, and any calls associated with those items!

To delete a site from the Directory, select the site you want to remove, then click on the **Properties** button, as shown below:



The site Properties window will appear. Click on the **Delete site** tab at the bottom-left of the window to remove the site from the Directory; a confirmation will be required, to prevent the site being deleted accidentally.

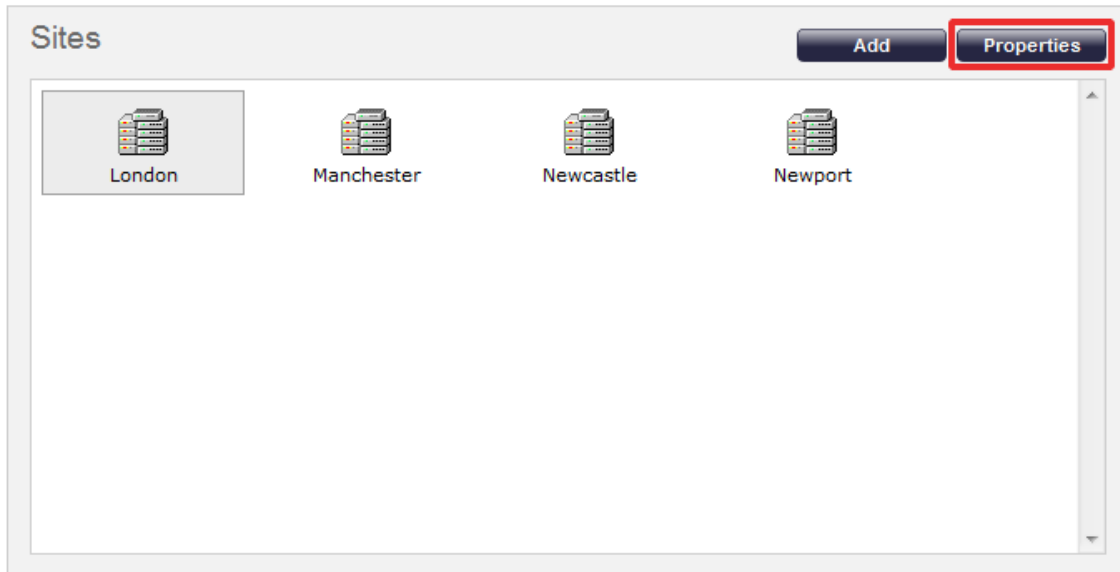


Configuring a site

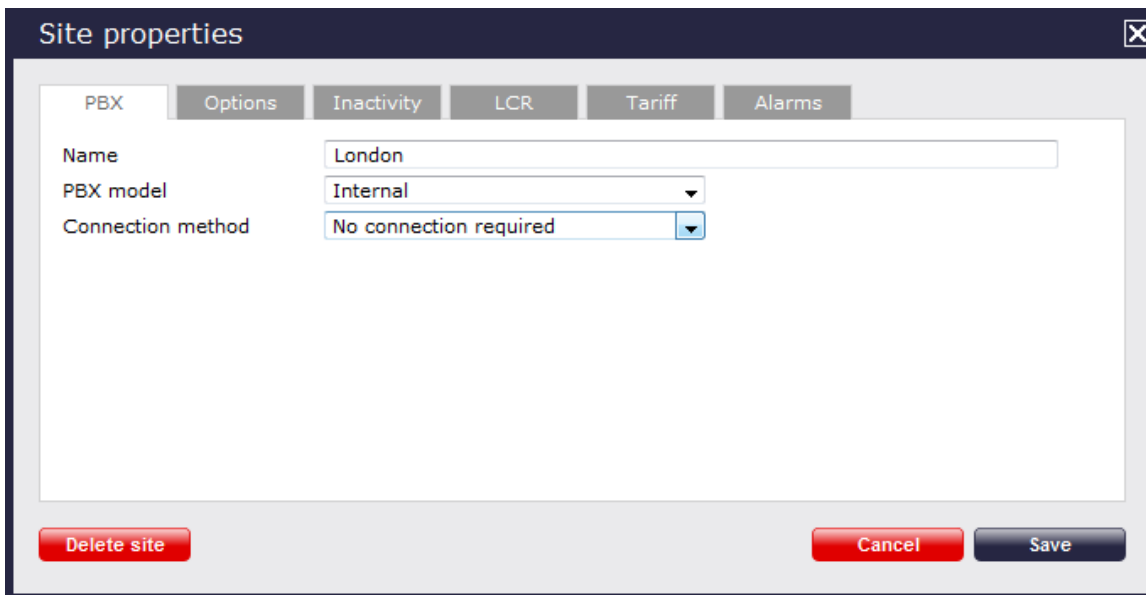


Overview

To configure a site, go to the Directory screen, select the site you want to configure and click on the **Properties** button at the top-right of the panel, as shown below:



The following window will appear, where you can configure the properties of your site:



Each tab in the `site properties` window are described below:

PBX

The `PBX` tab allows you to configure the properties of your telephone system. The properties presented in this tab will vary, depending on the connection method used by your telephone system to provide call logging data.

For all connection types

PBX	Options	Inactivity	LCR	Tariff	Alarms
Name	<input type="text" value="London"/>				
PBX model	Internal				
Connection method	No connection required				

Field	Description
Name	The name by which you want your site to be identified.
PBX model	The name of your telephone system.
Connection method	The connection method used by your telephone system to provide call logging data.

For listening connections

PBX	Options	Inactivity	LCR	Tariff	Alarms
Name	<input type="text" value="London"/>				
PBX model	Avaya IP Office 6+				
Connection method	Listen for connections from PBX				
Host	<input type="text"/>				
Port	<input type="text" value="9000"/>				

Field	Description
Host	Specify the IP address of your PBX to only allow data to be sent from that address. You may leave this field blank to accept data from any IP address.
Port	The port number that TIM Plus should listen on for call logging data.

For active connections

PBX	Options	Inactivity	LCR	Tariff	Alarms
Name	London				
PBX model	Avaya IP Office				
Connection method	Actively connect to PBX				
Host	192.168.0.1				
Port	9000				
Username					
Password					
Connection script	Generic Simple				

Field	Description
Host	The IP address of the telephone system.
Port	The port number that your telephone system listens on.
Username	The username required to log in to your telephone system, if applicable.
Password	The password required to log in to your telephone system, if applicable.

For FTP transfer connections

PBX	Options	Inactivity	LCR	Tariff	Alarms	Sync
Name	London					
PBX model	Cisco UCM 5+					
Connection method	Receive FTP transfers from PBX					
	<input type="checkbox"/> Use SFTP protocol					
Username	cmadmin					
Password	●●●●●●					

Field	Description
Username	The username of the FTP account on your telephone system.
Password	The password of the FTP account on your telephone system.

For DSN connections

PBX	Options	Inactivity	LCR	Tariff	Alarms
Name	<input type="text" value="London"/>				
PBX model	Alcatel OminPCX Office ▼				
Connection method	Connect to a system DSN ▼				
DSN name	TIM Plus - Alcatel OHL ▼				
Frequency	<input type="text" value="5"/>				
DB Script	Alcatel OminPCX Office OHL ▼				

Field	Description
DSN name	The name of the system DSN connection to use when connecting to your telephone system's database.
Frequency	The frequency, in seconds, of the checks that TIM Plus makes when connecting to the database to determine if new data is available.
DB Script	The database script that TIM Plus uses when checking for new data.

For RADIUS connections


PBX	Options	Inactivity	LCR	Tariff	Alarms	Sync
Name	<input type="text" value="London"/>					
PBX model	Cisco UCME - RADIUS ▼					
Connection method	RADIUS connection ▼					
Client IP	<input type="text" value="192.168.1.1"/>					
Secret	<input type="password" value="•••••"/>					

Field	Description
Client IP	The IP address of your telephone system responsible for sending RADIUS packets.
Secret	The secret key used in RADIUS authentication between TIM Plus and your telephone system.

For SysLog connections

PBX	Options	Inactivity	LCR	Tariff	Alarms	Sync
Name	London					
PBX model	Cisco UCME - SysLog					
Connection method	SysLog connection					
Client IP	192.168.1.1					

Field	Description
Client IP	The IP address of your telephone system responsible for sending SysLog events to TIM Plus.

 For detailed information about connecting to all makes/models of PBX, refer to the [Connecting to your PBX](#) section.

Options

The **Options** tab enables you to keep a backup of any call logging data received, timestamp incoming call records and delay processing of call records. These options are explained below in more detail:

PBX	Options	Inactivity	LCR	Tariff	Alarms
<input checked="" type="checkbox"/> Save a backup of any data received from this PBX, to the following file: <input type="text" value="{app}\backup\backup-<code>{year}</code>-<code>{month}</code>-<code>{day}</code>.<code>{uiv}</code>" }"=""/>					
<input type="checkbox"/> Timestamp received data					
<input type="checkbox"/> Binary data					
<input type="checkbox"/> Delay processing of received data by <input type="text" value="250"/> ms					

Save a backup of any data received from this PBX

TIM Plus allows you to save a backup of any call logging data received from your telephone system(s).

To enable backups, tick the *save a backup of any data received from this PBX* box and enter the location of the folder you want to store the files in. The default path is `{app}\backup\backup-{year}-{month}-{day}.{uiv}}` and can contain dynamic variables, as detailed below:

Item	Description
app	The full installation path of TIM Plus

year	The year the data was captured in yyyy format
month	The month the data was captured in mm format
day	The day of the month when data was captured in dd format
uiv	A unique ID representing each site in the Directory

Timestamp received data

TIM Plus can timestamp call records from your telephone system as they are received, if they do not already include dates and times.

Binary data

Select this option if your telephone system sends call records in a non-textual format.

Delay processing of received data

Enable this option and enter a time delay, in milliseconds, if call records are sent from your telephone system over a slow connection. This helps to prevent data loss when call records are processed before they are fully received.

Inactivity

The **Inactivity** tab allows you to set up an inactivity timer, which can notify you by e-mail when TIM Plus has not received data from your telephone system for a given amount of time.

The screenshot shows the 'Inactivity' configuration page. It includes the following elements:

- Tabs: PBX, Options, **Inactivity**, LCR, Tariff, Alarms
- Enable inactivity timer
- After minutes of inactivity, send email to:-
-
- Reset connection on inactivity
- Exclude the following days and hours from inactivity monitoring:

<input type="checkbox"/> Monday	<input checked="" type="checkbox"/> 00	<input checked="" type="checkbox"/> 07	<input type="checkbox"/> 14	<input checked="" type="checkbox"/> 21
<input type="checkbox"/> Tuesday	<input checked="" type="checkbox"/> 01	<input checked="" type="checkbox"/> 08	<input type="checkbox"/> 15	<input checked="" type="checkbox"/> 22
<input type="checkbox"/> Wednesday	<input checked="" type="checkbox"/> 02	<input type="checkbox"/> 09	<input type="checkbox"/> 16	<input checked="" type="checkbox"/> 23
<input type="checkbox"/> Thursday	<input checked="" type="checkbox"/> 03	<input type="checkbox"/> 10	<input type="checkbox"/> 17	
<input type="checkbox"/> Friday	<input checked="" type="checkbox"/> 04	<input type="checkbox"/> 11	<input checked="" type="checkbox"/> 18	
<input checked="" type="checkbox"/> Saturday	<input checked="" type="checkbox"/> 05	<input type="checkbox"/> 12	<input checked="" type="checkbox"/> 19	
<input checked="" type="checkbox"/> Sunday	<input checked="" type="checkbox"/> 06	<input type="checkbox"/> 13	<input checked="" type="checkbox"/> 20	

Enable inactivity timer

Select this option to enable inactivity monitoring for the site you are configuring. Enter the amount of time, in minutes, that must pass with no call activity, before an e-mail is sent. Next, enter the e-mail address that will receive inactivity alerts for this site.

Reset connection on inactivity

TIM Plus can reset the network connection to your telephone system when an inactivity alert is sent, in order to cause the telephone system to restart its connection.

Exclude days and hours from inactivity monitoring

Tick the box alongside the days and hours when it is legitimate that no call activity takes place, such as at night or at weekends, so as not to receive unnecessary e-mail notifications for those periods.

LCR

The **LCR** tab allows you to administer any least cost routing (LCR) codes you may use to route calls via different carriers.

LCR digits route your telephone calls through different carriers. Create LCR entries below:

LCR digits routes to

LCR digits ▲	Routes to	
141	Default	✘
1470	Default	✘
1620	Default	✘
1620141	Default	✘
16201470	Default	✘
1623	Default	✘

Adding LCR codes

To add an LCR code, enter it in the `LCR digits` field and select its associated tariff table from the drop-down list, as shown above.

Removing LCR codes

To remove an LCR code, click on the ✘ icon alongside it.

Tariff

The `Tariff` tab allows you to select a default tariff table to use when costing calls made by users from this site.

Apply the following tariff to any calls made by users within this site



By default, TIM Plus is supplied with a standard tariff table for the country of installation, which automatically includes details of national, international and mobile/cellphone dial codes. Bespoke tariffs can also be provided on request.

Alarms

TIM Plus can send e-mail alerts when calls whose properties match certain criteria have happened, such as calls above a particular duration, calls to specific phone numbers, or when user-defined cost thresholds are exceeded.

PBX	Options	Inactivity	LCR	Tariff	Alarms
<input checked="" type="checkbox"/> Raise an alarm when any of the following criteria are met					
Dialled number starts with		<input type="text" value="00, 09"/>			
Cost is above		<input type="text" value="5.00"/>			
Duration longer than		<input type="text" value="1800"/>	seconds		
<input checked="" type="checkbox"/> Enable missed call alarms for this site					
Send alarms to the following email address(es):					
<input type="text" value="support@tri-line.com"/>					

Dialled number alarm

An alarm can be activated when a full or partial number is dialled. To add a series of full or partial numbers, separate each one with a comma, as shown above. An example might be 00, 020, 020726526, 02072652600.

Cost alarm

An alarm can be activated when a call exceeds a specific cost.

Duration alarm

An alarm can be activated when a call exceeds a predetermined duration, specified in seconds.

Missed call alarm

E-mail notifications of missed calls can be activated, by ticking the **Enable missed call alarms for this site** option.

Delivering the alarm notification

To receive an e-mail notification from TIM Plus about any of the aforementioned alarms, enter the address of the e-mail recipient in the box provided; to send alerts to multiple email addresses, separate each one with a semicolon.

Groups

User groups

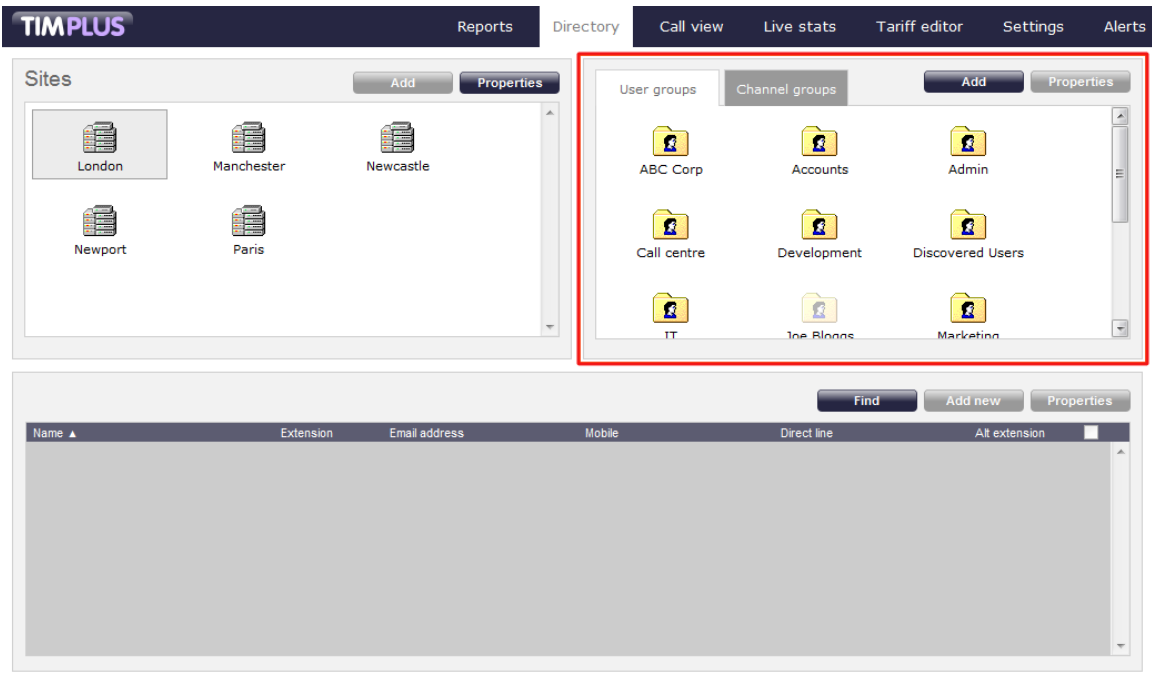
User groups

- What is a user group?
- Adding a user group
- Configuring a user group
- Renaming a user group
- Deleting a user group

What is a user group?

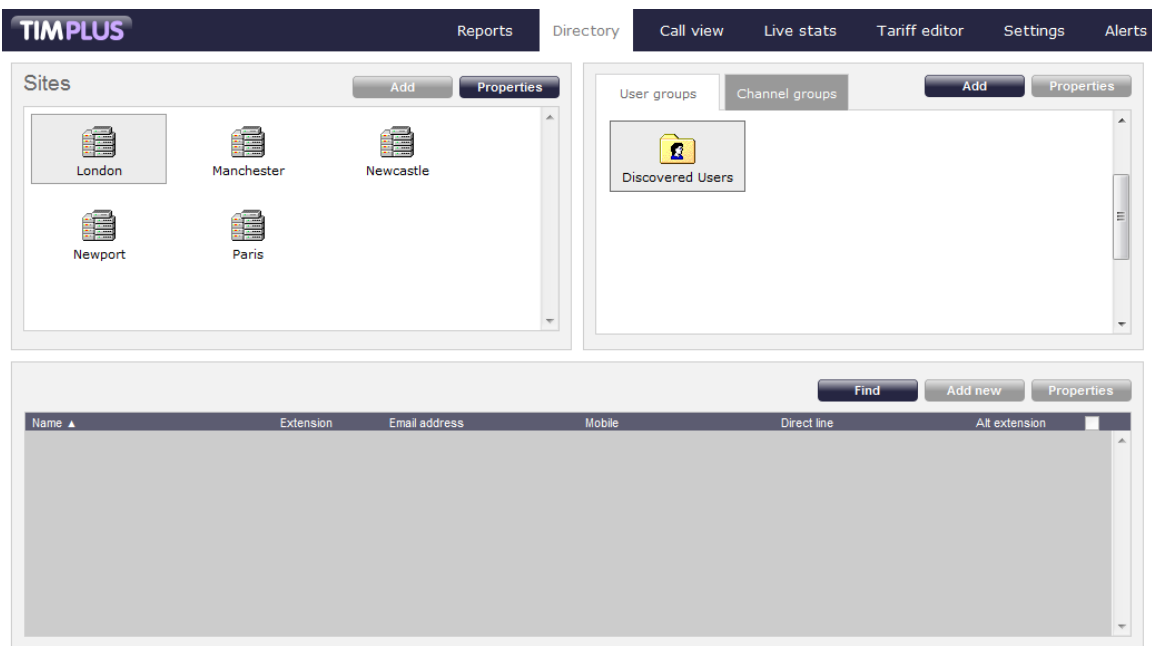
A user group is a container of individual users, and together they mimic the organisational structure of your company, enabling you to run

reports on, and [restrict access](#) to, parts of the TIM Plus directory.



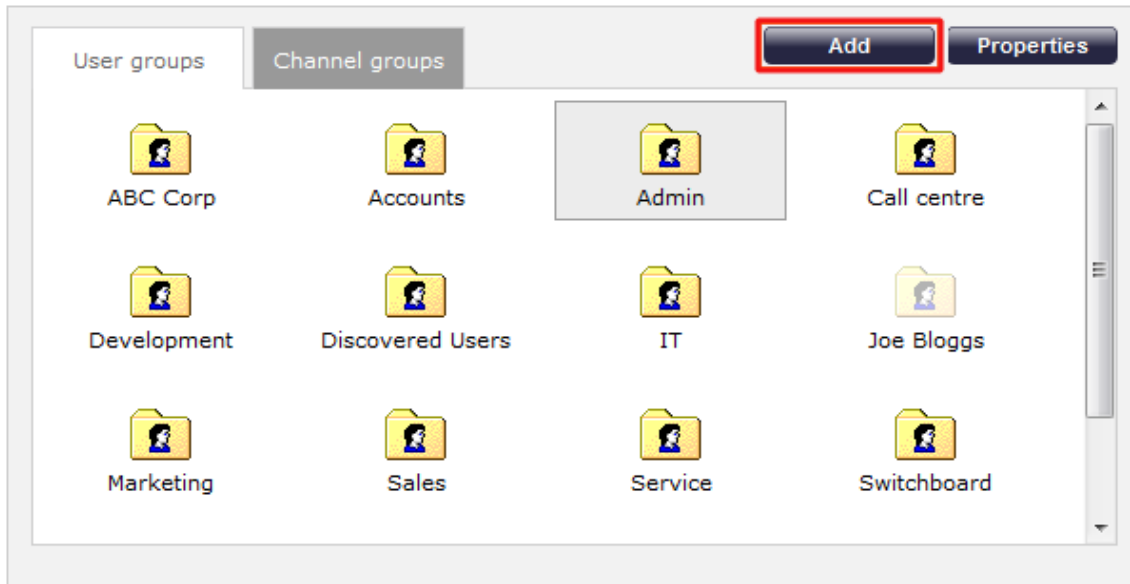
The Discovered Users folder

A special user group, **Discovered Users**, is automatically created in TIM Plus to harvest hitherto-unknown user information from the call data received from your telephone system. Over time, when all possible users have been collected by the Discovered Users folder, you can create your own user groups based on the structure of your organisation, and [move users](#) into these new groups.



Adding a user group

To add a new user group to the Directory, select the **User groups** tab from the Groups panel and click on the **Add** button.



A new window will appear, allowing you to add the name of the group and its associated pilot/hunt group number, if applicable.

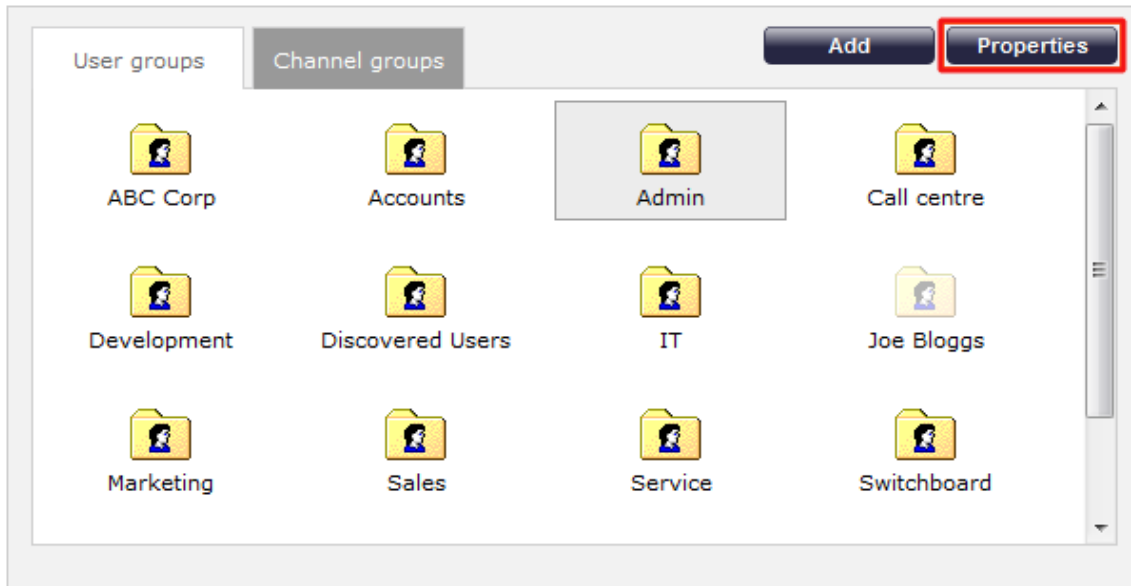
 A screenshot of the 'Group properties' dialog box. The title bar says 'Group properties' with a close button (X). Below the title bar are five tabs: 'General', 'Telephony', 'Alarms', 'Charge', and 'Tariff'. The 'General' tab is selected. Inside the dialog, there are two input fields: 'Name' with the text 'Reception' and 'Pilot/Hunt number' which is empty. At the bottom of the dialog are two buttons: 'Cancel' (red) and 'Add' (dark blue, highlighted).

Click on the **Add** button to add the new group to the Directory.

i If you use synchronisation, such as Cisco AXL, you need not manually configure user groups, since TIM Plus automatically imports users from your telephone system, placing them in their respective groups.

Configuring a user group

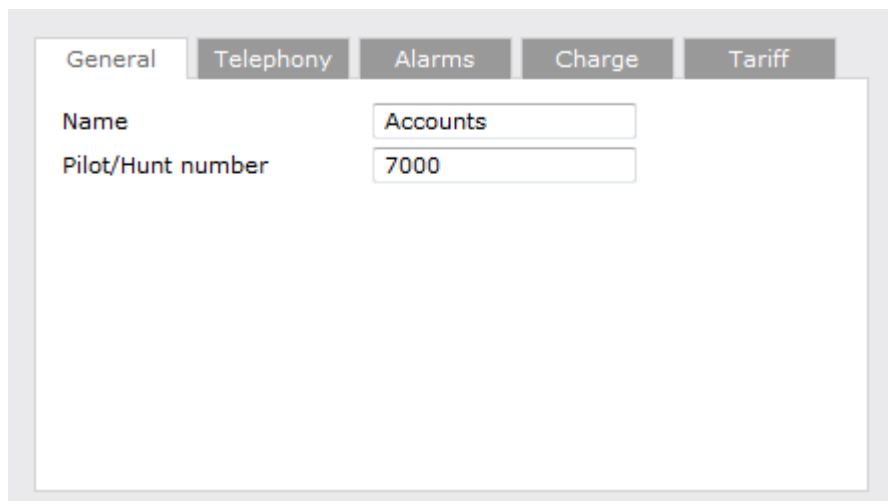
To configure the properties of a user group, highlight the group you want to configure and click on the **Properties** button at the top-right corner of the panel:



A new window will open, where you can configure the properties of the user group. Each tab in the `Group properties` window is described below:

General

In the `General` tab you can edit the name of the user group and its associated pilot/hunt group number, if applicable.



Telephony

The `Telephony` tab gives you the option to exclude the currently-selected group from being logged by TIM Plus. If call recording integration is enabled, you can also exclude calls from being recorded.

General
Telephony
Alarms
Charge
Tariff

Do not log calls for users within this group
 Do not record calls for users within this group
 Exclude users within this group from call statistics

The following options can be enabled or disabled in this panel:

Option	Description
Do not log	Calls to and from this user group will not be logged by TIM Plus. In addition, if integrated call recording is used, no audio recordings will be available
Do not record calls	Calls to and from this user group will not be recorded, if integrated call recording is in use
Exclude users from call statistics	Collection of statistics will not be performed for calls to and from this user group

Your software license user capacity does not include users inside groups whose **Do not log** option is enabled.

Alarms

TIM Plus can send e-mail alerts when calls whose properties match certain criteria have happened, such as calls above a particular duration, calls to specific phone numbers, or when user-defined cost thresholds are exceeded.

General
Telephony
Alarms
Charge
Tariff

Raise an alarm when **any** of the following criteria are met

Dialed number starts with
 Cost is above
 Duration longer than seconds

 Enable missed call alarms for this group

 Send alarms to the following email address(es):

Dialled number alarm

An alarm can be activated when a full or partial number is dialled by any user within the selected group. To add a series of full or partial numbers, separate each one with a comma, as shown above. An example might be 00, 020, 020726526, 02072652600.

Cost alarm

An alarm can be activated when a call made by any user within the selected group exceeds a specific cost.

Duration alarm

An alarm can be activated when a call made by any user within the selected group exceeds a predetermined duration, measured in seconds.

Missed call alarm

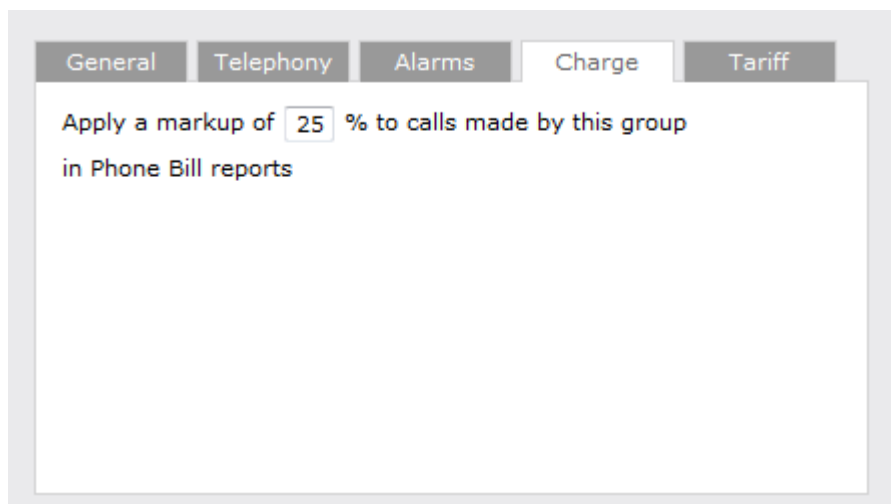
E-mail notifications of missed calls can be activated for users in the selected group, by ticking the [Enable missed call alarms for this site](#) option.

Delivering the alarm notification

To receive an e-mail notification from TIM Plus about any of the aforementioned alarms, enter the address of the e-mail recipient in the box provided; to send alerts to multiple e-mail addresses, separate each one with a semicolon.

Charge

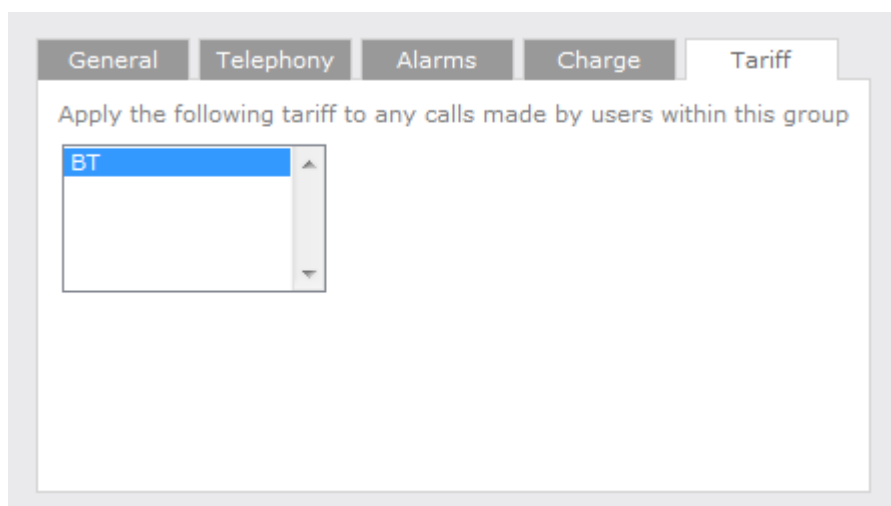
The tab gives you the ability to add a percentage markup to all calls in the selected group. To apply the charge, enter the percentage by which you would like to mark up calls, as shown below:



The screenshot shows a web interface with five tabs: General, Telephony, Alarms, Charge, and Tariff. The 'Charge' tab is selected and active. The content of the 'Charge' tab is: "Apply a markup of % to calls made by this group in Phone Bill reports".

Tariff

The tab gives you the ability to select a default tariff table to use when costing calls made by users in this group.

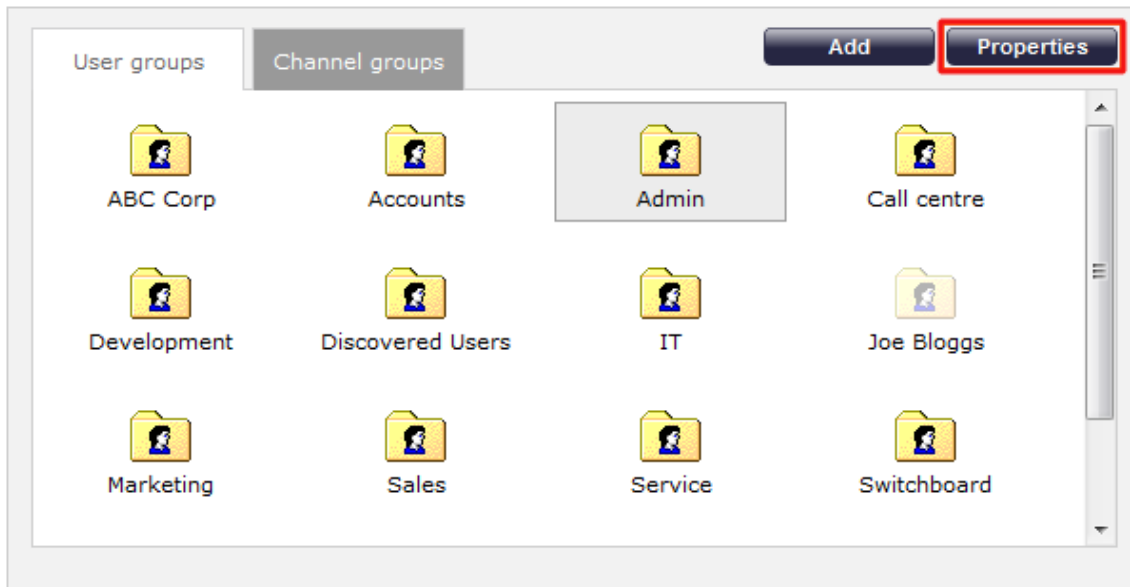


The screenshot shows a web interface with five tabs: General, Telephony, Alarms, Charge, and Tariff. The 'Tariff' tab is selected and active. The content of the 'Tariff' tab is: "Apply the following tariff to any calls made by users within this group". Below this text is a dropdown menu with 'BT' selected.

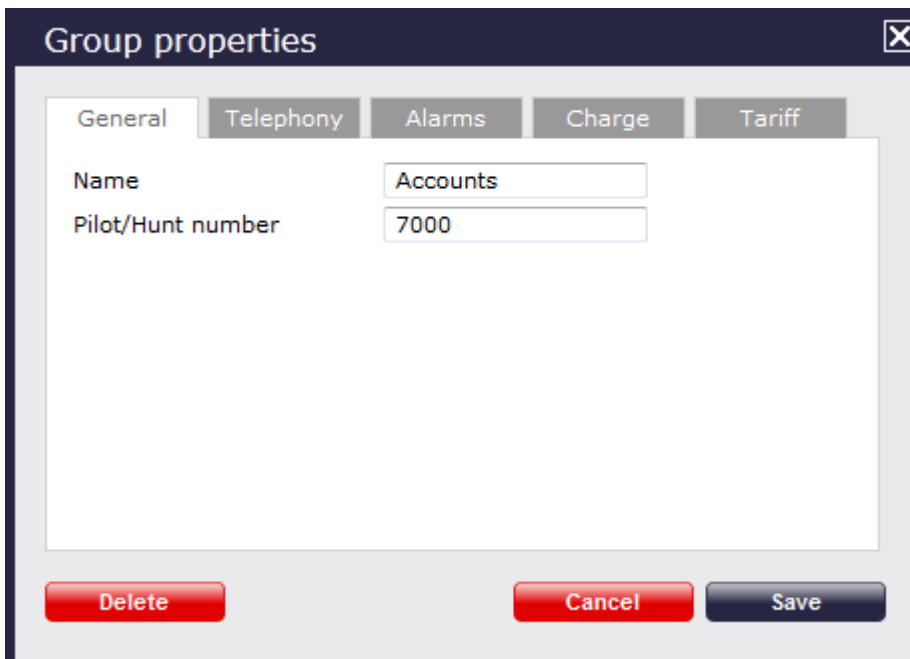
i By default, TIM Plus is supplied with a standard tariff table for the country of installation, which automatically includes details of national, international and mobile/cellphone dial codes. Bespoke tariffs can also be provided on request.

Renaming a user group

To rename a user group, locate it in the Directory and click on the **Properties** button.



A new window will open, where you can specify a new name for the group. Click **Save** to apply the changes.



Deleting a user group

- When you delete a user group, you are deleting all the information contained within that group, including all users and calls associated with those users!

To delete a user group from the Directory, select the group you want to remove and click on the **Properties** button.

The screenshot shows a window titled "Group properties" with a close button (X) in the top right corner. Below the title bar are five tabs: "General", "Telephony", "Alarms", "Charge", and "Tariff". The "General" tab is active. Inside the window, there are two input fields: "Name" with the text "Switchboard" and "Pilot/Hunt number" which is empty. At the bottom of the window, there are three buttons: a red "Delete" button, a red "Cancel" button, and a dark grey "Save" button.

The **Group properties** window will appear. Click on the **Delete site** tab at the bottom-left of the window to remove the group from the Directory; a confirmation will be required, to prevent the group being deleted accidentally.

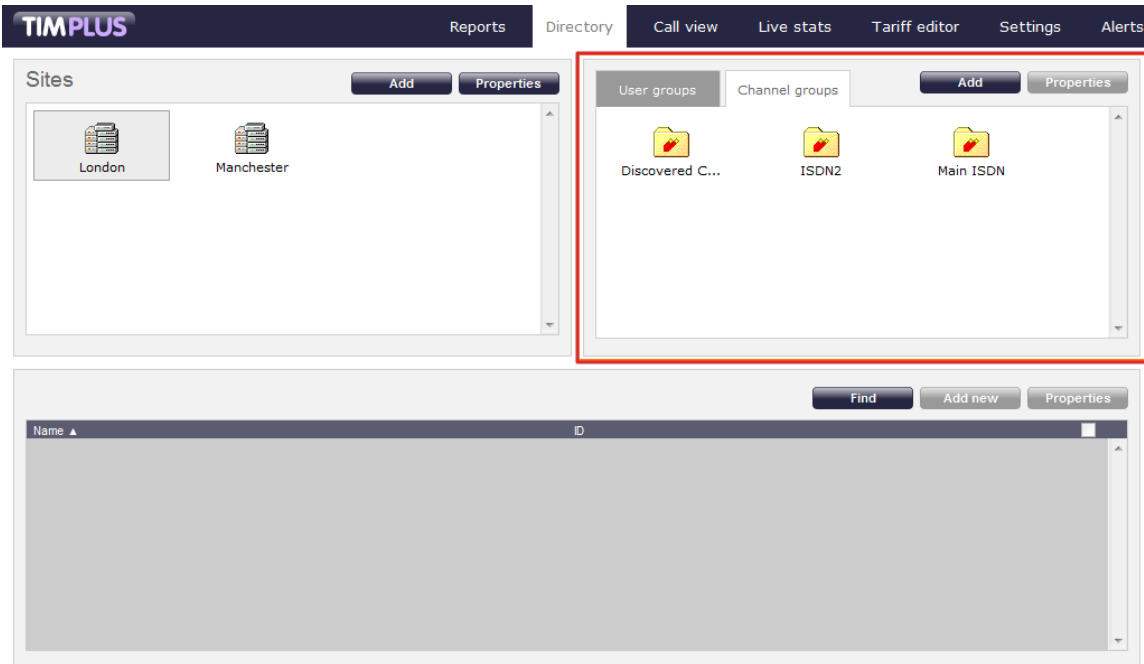
Channel groups

Channel groups

- What is a channel group?
- Adding a channel group
- Configuring a channel group
- Renaming a channel group
- Deleting a channel group

What is a channel group?

A channel group is a container of individual channels and is normally named to reflect the type of channel it contains, such as ISDN30, ISDN2, Analogue, etc.

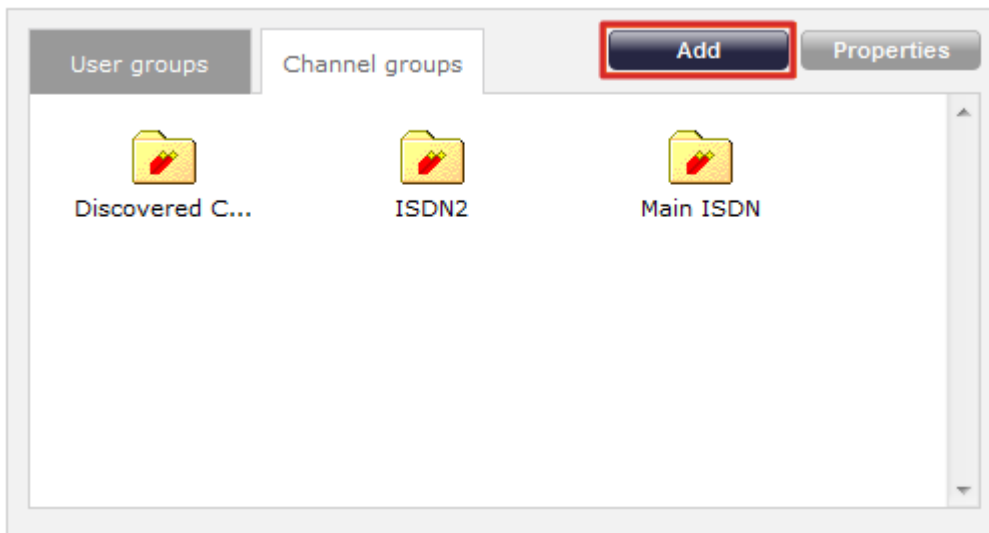


The Discovered Channels folder

A special channel group, *Discovered Channels*, is automatically created in TIM Plus to harvest hitherto-unknown channel information from the call data received from your telephone system. Over time, when all possible channels have been collected by the Discovered Channels folder, you can create your own channel groups based on the structure of your organisation, and [move channels into these new groups](#).

Adding a channel group

To add a new channel group to the Directory, select the **Channel groups** tab from the Groups panel and click on the **Add** button.



A new window will appear, allowing you to enter the group's name and its associated trunk access code (TAC), if applicable.

Channel group properties

General | Telephony | Tariff

Name: ISDN 30

Access code: 8000

Channels in this group emulate network termination (NT mode)

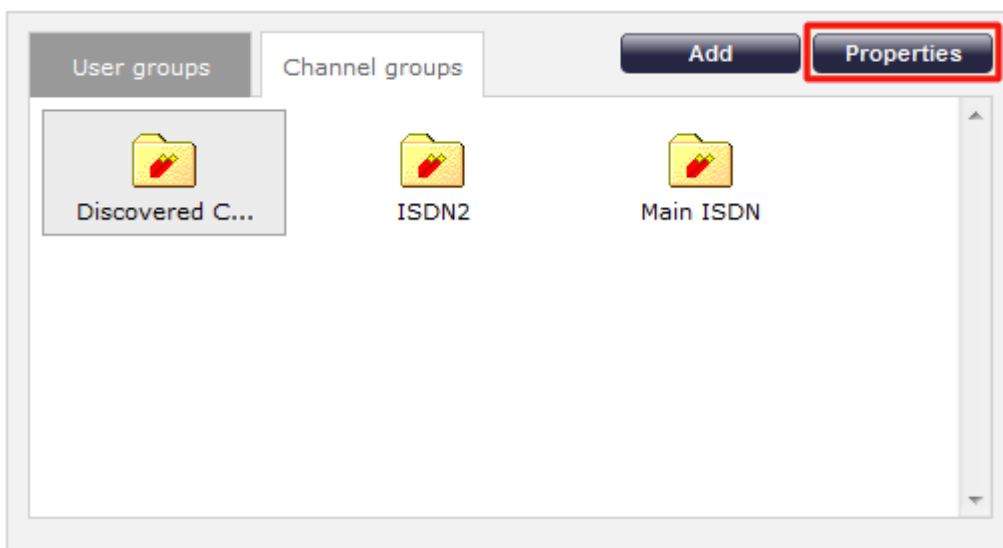
Cancel Add

Click on the **Add** button to add the new group to the Directory.

i If you use synchronisation, such as Cisco AXL, you need not manually configure channel groups, since TIM Plus automatically imports channels from your telephone system, placing them in their respective groups.

Configuring a channel group

To configure the properties of a channel group, highlight the group you want to configure and click on the **Properties** button at the top-right corner of the panel:



A new window will open, where you can configure the properties of your channel group. Each tab in the `Group properties` window is described below:

General

In the **General** tab you can edit the name of the channel group and its associated access code, if applicable.

General **Telephony** Tariff

Name

Access code

Channels in this group emulate network termination (NT mode)

Channels in this group emulate network termination

This option only applies if you have enabled integrated call recording on your system. Its purpose is to indicate that the far end of the channel's physical connection is emulating PSTN network termination (NT), such as in a private circuit scenario.

Telephony

The **Telephony** tab gives you the option to exclude the currently-selected group from being logged by TIM Plus. If call recording integration is enabled, you can also exclude calls from being recorded.

General **Telephony** Tariff

Do not log calls for channels in this group

Do not record calls for channels in this group

Exclude channels in this group from call statistics

Option	Description
Do not log	Calls for this channel group will not be logged by TIM Plus. In addition, if integrated call recording is in use, no audio recordings will be available
Do not record calls	Calls for this channel group will not be recorded, if integrated call recording is in use
Exclude channels from call statistics	Collection of statistics will not be performed for this channel group

Tariff

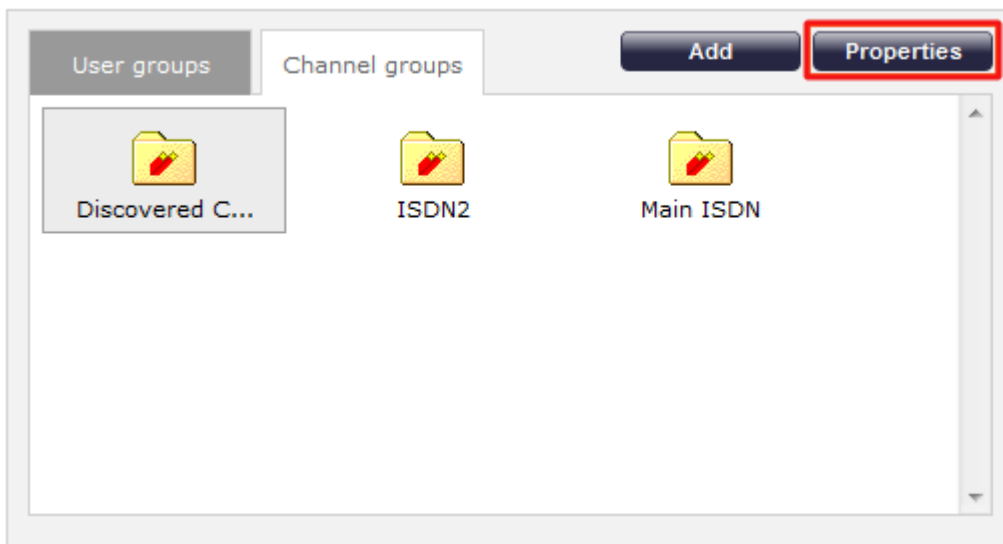
The **Tariff** tab gives you the ability to select a default tariff table to use, when costing calls for this channel group.



i By default, TIM Plus is supplied with a standard BT tariff which will automatically pick up national, international and mobile dial codes. Bespoke tariffs can also be provided on request.

Renaming a channel group

To rename a channel group, locate it in the Directory and click on the **Properties** tab.



A new window will open, where you can specify a new name for the group. Click **Save** to apply the changes.

Channel group properties [X]

General | Telephony | Tariff

Name: ISDN2

Access code:

Channels in this group emulate network termination (NT mode)

Buttons: Delete, Cancel, Save

Deleting a channel group



When you delete a channel group, you are deleting all the information contained within that group, including all channels and the calls associated with those channels!

To remove a channel group from the Directory, select the group you want to remove and click on the **Properties** button. In the **Channel properties** window that will open, click on the **Delete** button to remove the channel from the Directory; a confirmation will be required, to prevent users being deleted accidentally.

Channel group properties [X]

General | Telephony | Tariff

Name: ISDN2

Access code:

Channels in this group emulate network termination (NT mode)

Buttons: Delete, Cancel, Save

Contents

What are Contents?

The **Contents** panel is located at the bottom-half of the Directory screen. This contains the individual objects belonging to the previously-selected user or channel group.

If a user group is currently selected, the **Contents** panel will display a list of users contained in that group, as shown below:

The screenshot shows the TIMPLUS interface with the 'Directory' tab selected. The 'Contents' panel is highlighted with a red border and displays a list of 17 items. The list has columns for Name, Extension, Email address, Mobile, Direct line, and Alt extension. The items are as follows:

Name	Extension	Email address	Mobile	Direct line	Alt extension
AJ Singh	12030				
Danny Blackwell	1002				
Gary Stock	11087				
George Evans	12024				
Kerri Tai	2005				
Lance King	13405				
Malory Jones	3303				
Melvyn Coutts	11065				
Mohan Patel	2039				
Nathan Levy	2301				

If a channel group is currently selected, the Contents panel will display a list of channels contained in that group, as shown below:

The screenshot shows the TIMPLUS interface with the 'Directory' tab selected. The 'Contents' panel is highlighted with a red border and displays a list of 228 items. The list has columns for Name and ID. The items are as follows:

Name	ID
10001	10001
10003	10003
10004	10004
120001	120001
120002	120002
120003	120003
120004	120004
120005	120005
120006	120006
120007	120007

Users

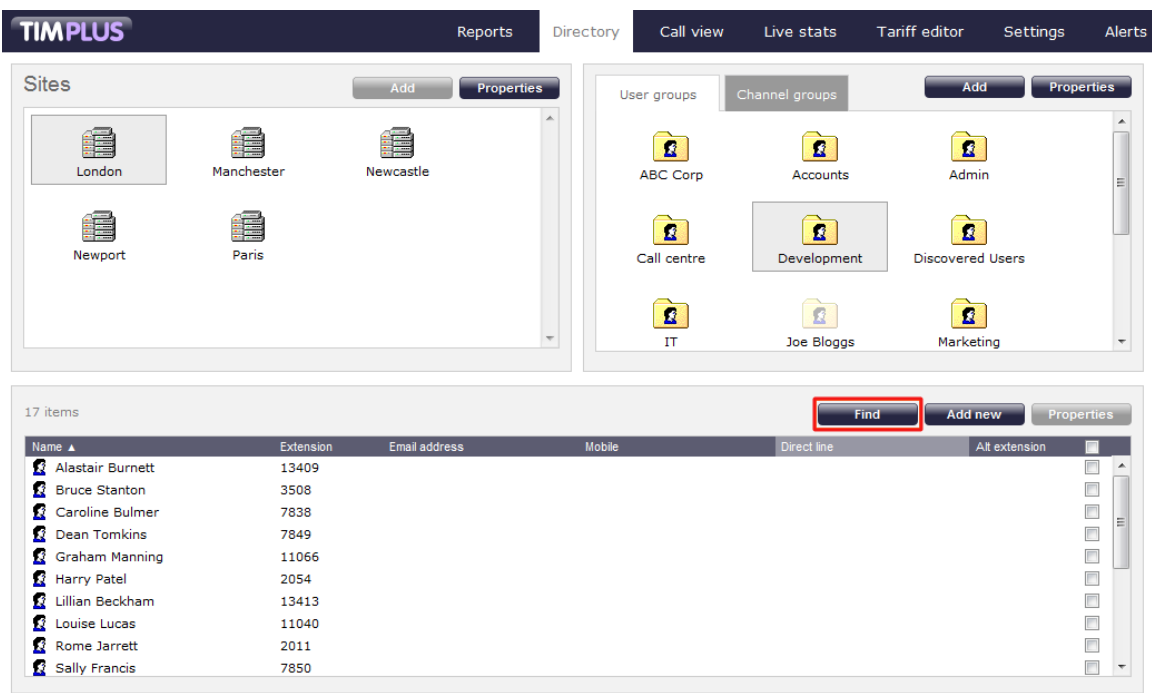
- Users**
- Overview
 - Finding a user
 - Adding a user
 - Editing a user's properties
 - Moving a user between two groups
 - Deleting a user

Overview

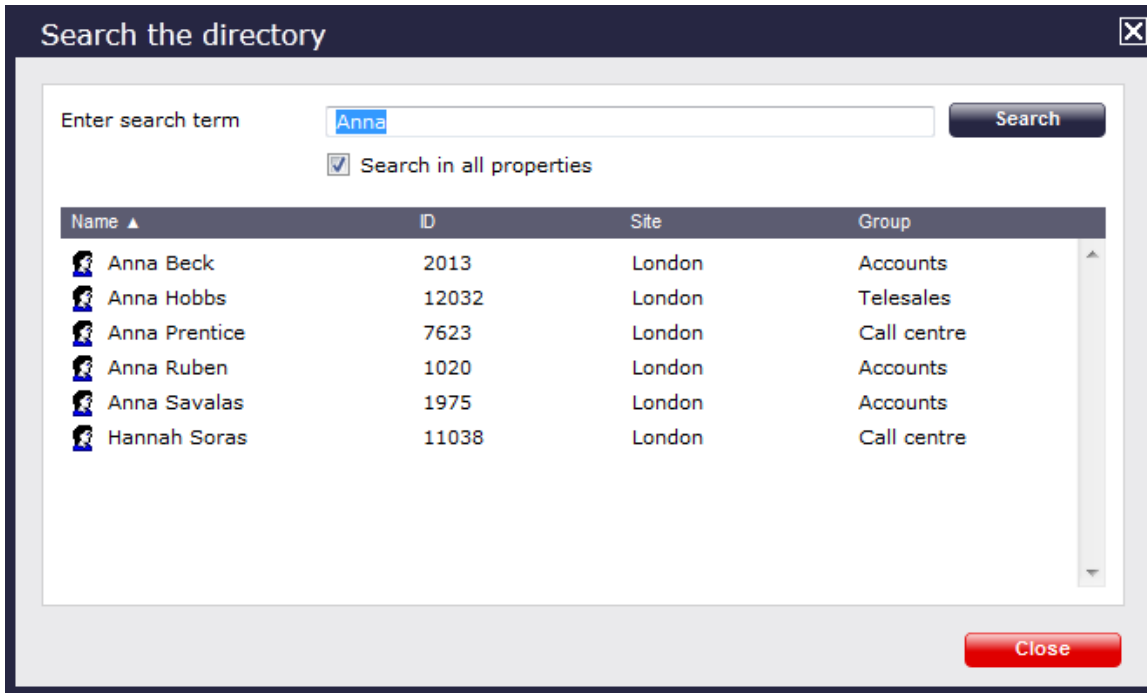
Users represent the people in your organisation who make use of devices such as telephone extensions, fax machines, etc. When you first configure TIM Plus, your users are automatically harvested from the data received from the phone system into a folder named **Discovered Users**. The properties of each user can be edited afterwards, and users can also be subsequently organised into new user groups, if preferred.

Finding a user

To locate a user in the Directory, select the **Directory** tab and click on the **Find** button at the top-right corner of the Contents panel, as shown below:



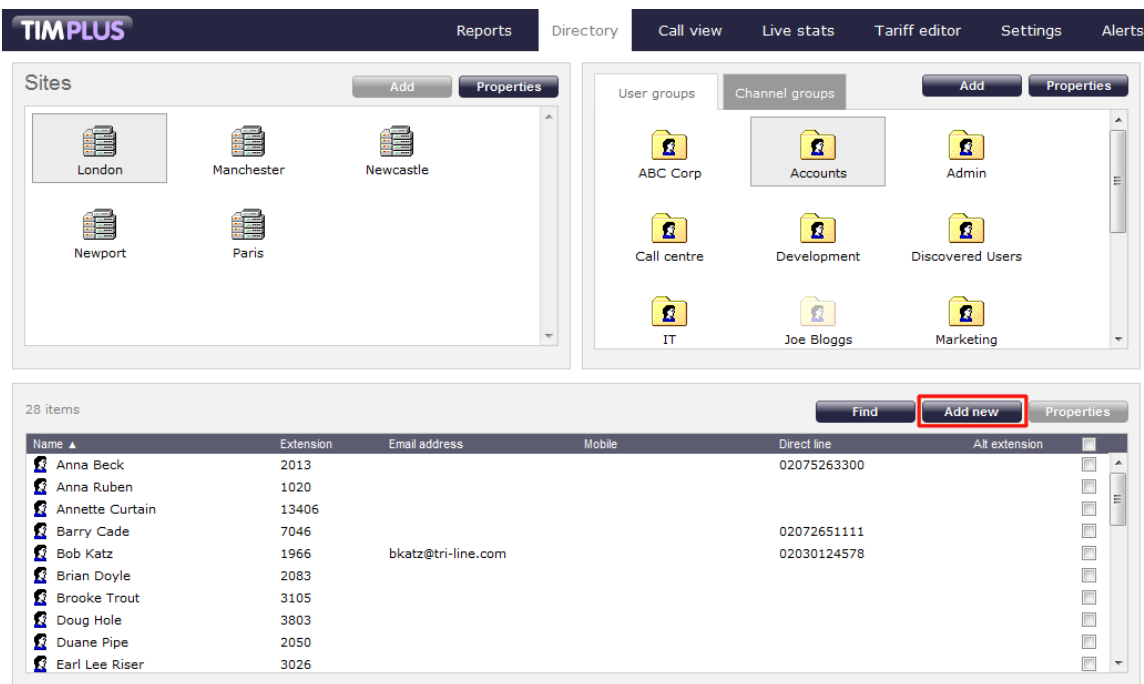
In the new window that opens, enter the name or extension number of the user you are looking for, then click on the **Search** button. The results will appear in the same window, as shown below:



Adding a user

Before adding a new user to the system, check that it doesn't already exist, by searching for it in the Directory.

To manually add a user to the system, click on the **Directory** tab, select the group where you want the new user to be added, then click on the **Add new** button at the top-right corner of the Contents panel.



A new window will open, allowing you to configure the properties of the new user:

User properties [X]

General | Telephony | Charge | Markup

Name

Extension

Email

Alt extension

Comment

Cancel Add

Each field in the `User properties` window is described below:

Field	Description
Name	The name of the user. If no name is entered, the extension number will show instead
Extension	The extension number of the user
E-mail	The e-mail address of the user
Alt extension	The alternative extension number(s) or the DDI digits of the user's extension, if applicable
Comment	Any comments you want to add for this user

Once you have configured the properties of the user, click on the `Add` button, as shown below:

User properties [X]

General | Telephony | Charge | Markup

Name

Extension

Email

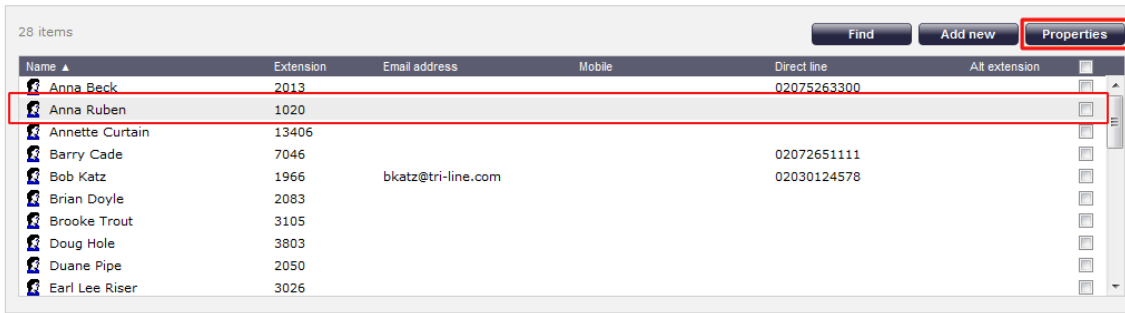
Alt extension

Comment

Cancel Add

Editing a user's properties

To edit the properties of a user, select it and click on the **Properties** button at the top-right corner of the Contents panel:



The **User properties** window will open, displaying each property of the user, arranged over the following tabs:

General

Field	Description
Name	Anna Savalas
Extension	1975
Email	asavalas@tri-line.com
Alt extension	
Comment	

Field	Description
Name	The name of the user. If no name is entered, the extension number will show instead
Extension	The extension number of the user
Email	The e-mail address of the user
Alt extension	The alternative extension number(s) or the DDI digits of the user, if applicable
Comment	Any comments you want to add for this user

Telephony

General | **Telephony** | Charge | Markup

DDI

IP Phone

Mobile

Home

Do not log calls for this user

Do not record calls for this user

Exclude this user from call statistics

Field	Description
DDI	The DDI number of the user
IP Phone	The IP phone number of the user
Mobile	The mobile number of the user
Home	The home telephone number of the user
Do not log calls for this user	When selected, calls for this user will not be logged
Do not record calls for this user	When selected, calls for this user will not be recorded
Exclude this user from call statistics	When selected, collection of statistics will not be performed for calls to and from this user

Charge

The tab allows you add or edit a fixed charge for the user, such as room rental, internet services or additional sundry items.

General | Telephony | **Charge** | Markup

Enter a description and amount to charge this user whenever they feature on a Phone Bill report

Description

Amount

Markup

The tab allows you to add or edit a markup charge to calls made by the user.

General | Telephony | Charge | **Markup**

Enter a description and percentage to charge this user per call on a Phone Bill report

Description

Amount %

After editing the properties of the user, click on the **Save** button to save your changes.

Moving a user between two groups

Follow the steps below to move a user from one group to another:

1. Click on the **Directory** tab and open the contents of the group which contains the user you want to move.
2. Select the user by ticking the box alongside it. The top-left panel of the screen will temporarily change to a **Move items** panel containing the selected user.

TIMPLUS Reports | **Directory** | Call view | Live stats | Tariff editor | Settings | Alerts

Move items Cancel Move >>

Select a new group from the panel on the right, into which the items below will be moved.

Anna Savalas

User groups | Channel groups | Add | Properties

Switchboard | ABC Corp | **Admin**

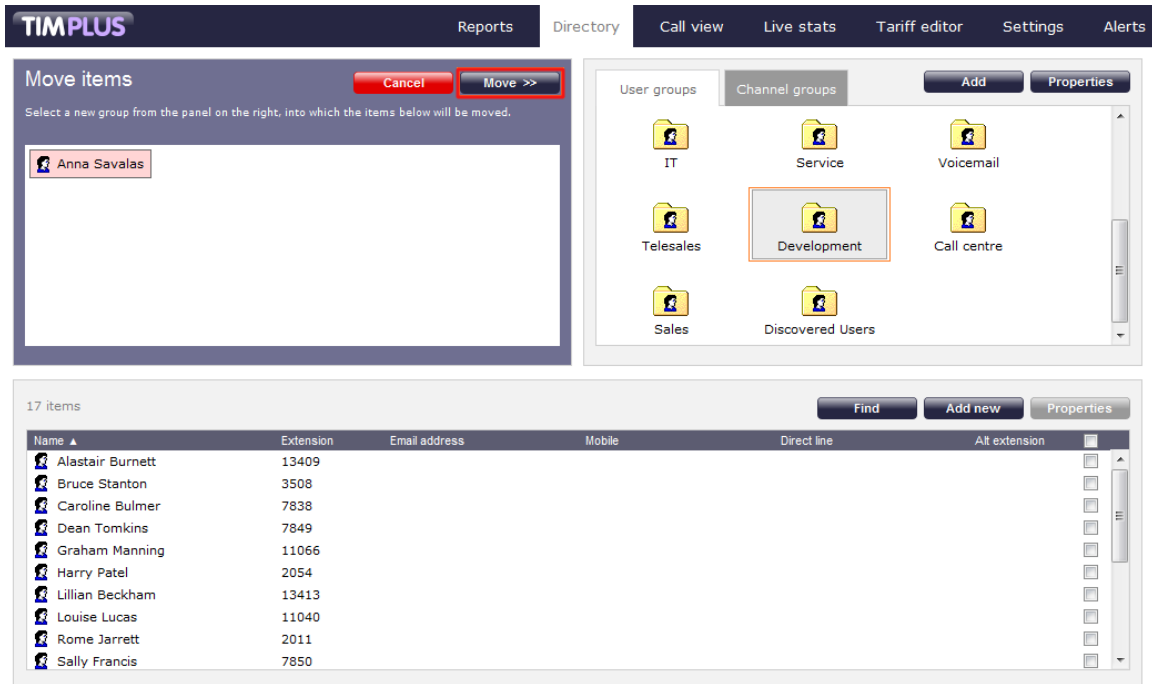
Joe Bloggs | Accounts | Marketing

IT | Service | Voicemail

16 items Find Add new Properties

Name	Extension	Email address	Mobile	Direct line	All extension
<input type="checkbox"/> Misty Waters	1980				<input type="checkbox"/>
<input type="checkbox"/> Marsha Mellow	1979				<input type="checkbox"/>
<input type="checkbox"/> May First	3801				<input type="checkbox"/>
<input type="checkbox"/> Al Dente	2042	adente@tri-line.com			<input type="checkbox"/>
<input type="checkbox"/> Barbara Seville	1000				<input type="checkbox"/>
<input type="checkbox"/> Bea Caws	2000				<input type="checkbox"/>
<input type="checkbox"/> Andrew Montgomery	2068				<input type="checkbox"/>
<input checked="" type="checkbox"/> Anna Savalas	1975	asavalas@tri-line.com		02075238715	<input checked="" type="checkbox"/>
<input type="checkbox"/> John White	2999				<input type="checkbox"/>
<input type="checkbox"/> Norma Lee	8328				<input type="checkbox"/>

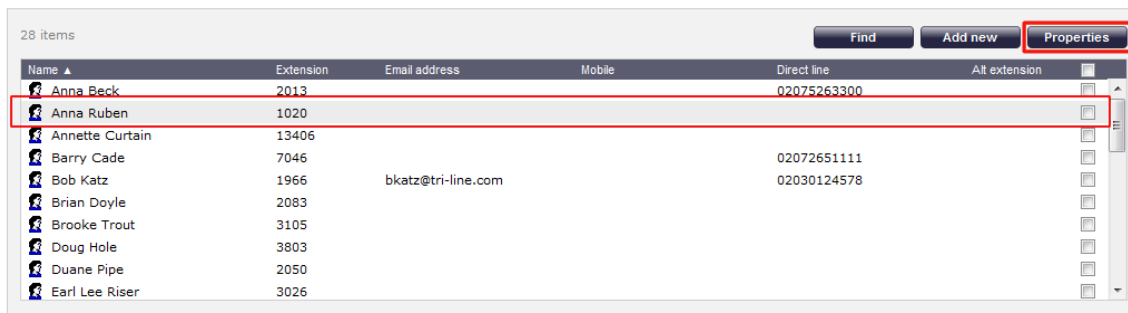
3. Next, select the destination group that you want the user to be moved into, and click on the **Move** button, as shown below:



Deleting a user

When you delete a user, you are also deleting the calls associated with that user!

To delete a user from the system, select it and click on the **Properties** button at the top-right corner of the Contents panel:



In the **User properties** window that will open, click on the **Delete** button to remove the user from the Directory; a confirmation will be required, to prevent users being deleted accidentally.

User properties [X]

General | Telephony | Charge | Markup

Name:

Extension:

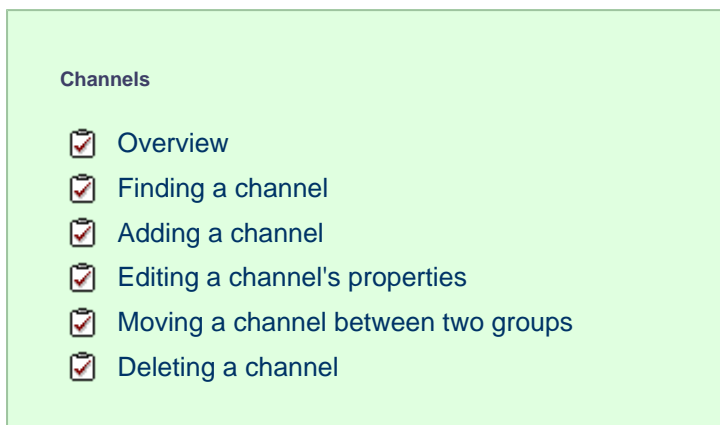
Email:

Alt extension:

Comment:

[Delete] [Cancel] [Save]

Channels



Overview

Channels are system objects representing your telephone lines. When you first configure TIM Plus, your channels are automatically harvested from the data received from the phone system, into a folder named **Discovered Channels**. The properties of each channel can be edited afterwards, and channels can also be organised subsequently into new channel groups, if preferred.

Finding a channel

To locate a channel in the Directory, select the **Directory** tab and click on the **Find** button at the top-right corner of the Contents panel, as shown below:

228 items

Name ▲	ID
10001	10001
10003	10003
10004	10004
120001	120001
120002	120002
120003	120003
120004	120004
120005	120005
120006	120006
120007	120007

In the new window that opens, enter the name or ID of the channel you are looking for, then click on the **Search** button. The results will appear in the same window, as shown below:

Search the directory

Enter search term: **Search**

Search in all properties

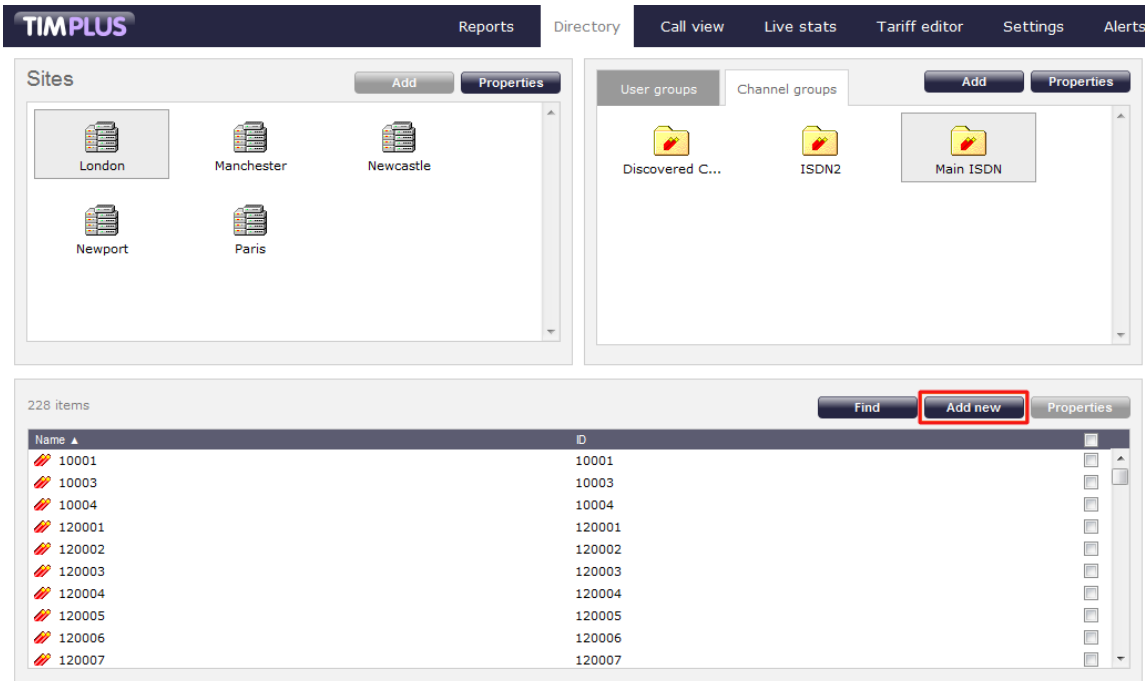
Name ▲	ID	Site	Group
120001	120001	London	Main ISDN
120002	120002	London	Main ISDN
120003	120003	London	Main ISDN
120004	120004	London	Main ISDN
120005	120005	London	Main ISDN
120006	120006	London	Main ISDN
120007	120007	London	Main ISDN
120008	120008	London	Main ISDN
120009	120009	London	Main ISDN

Close

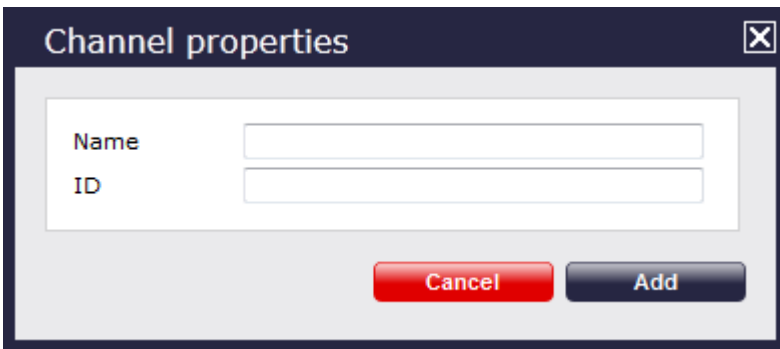
Adding a channel

i Before adding a new channel to the system, check that it doesn't already exist, by searching for it in the Directory.

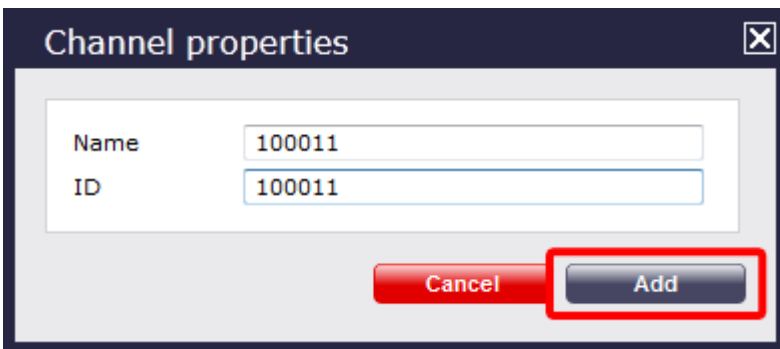
To manually add a channel to the system, click on the **Directory** tab and select the group where you want the new channel to be added, then click on the **Add new** button at the top-right corner of the Contents panel:



A new window will open, allowing you to configure the properties of the channel:

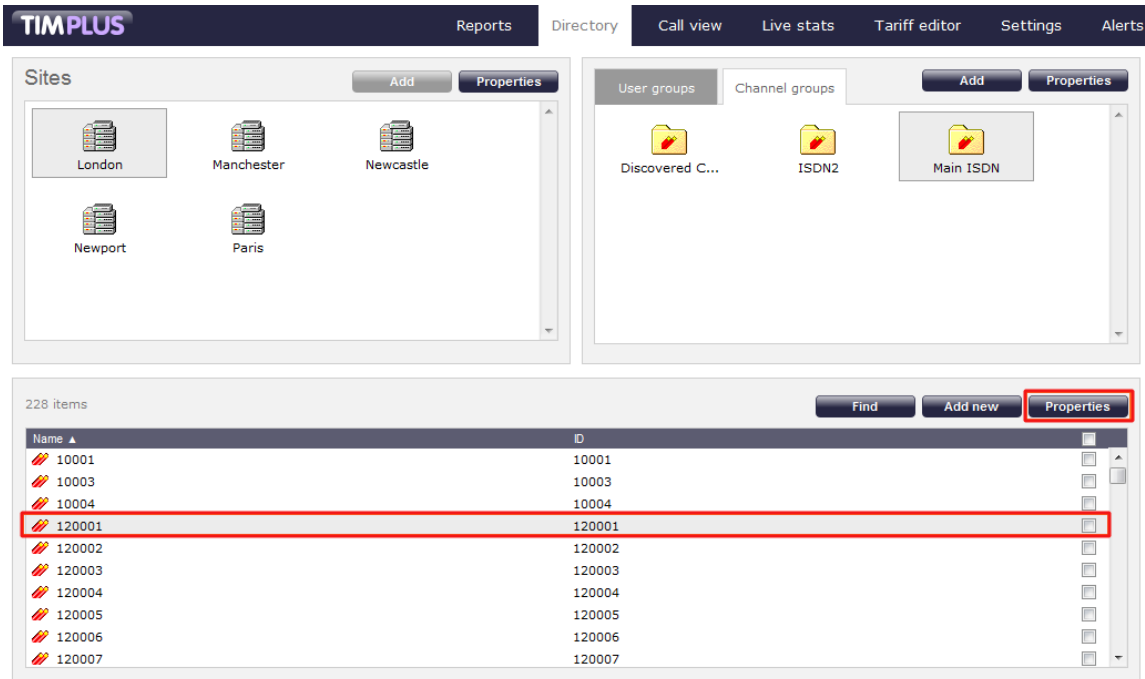


Once you have configured the properties of the channel, click on the **Add** button, as shown below:

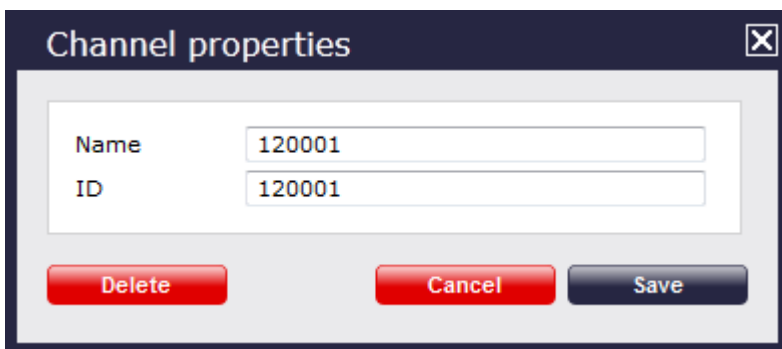


Editing a channel's properties

To edit the properties of a channel, select it and click on the **Properties** button at the top-right corner of the Contents panel:



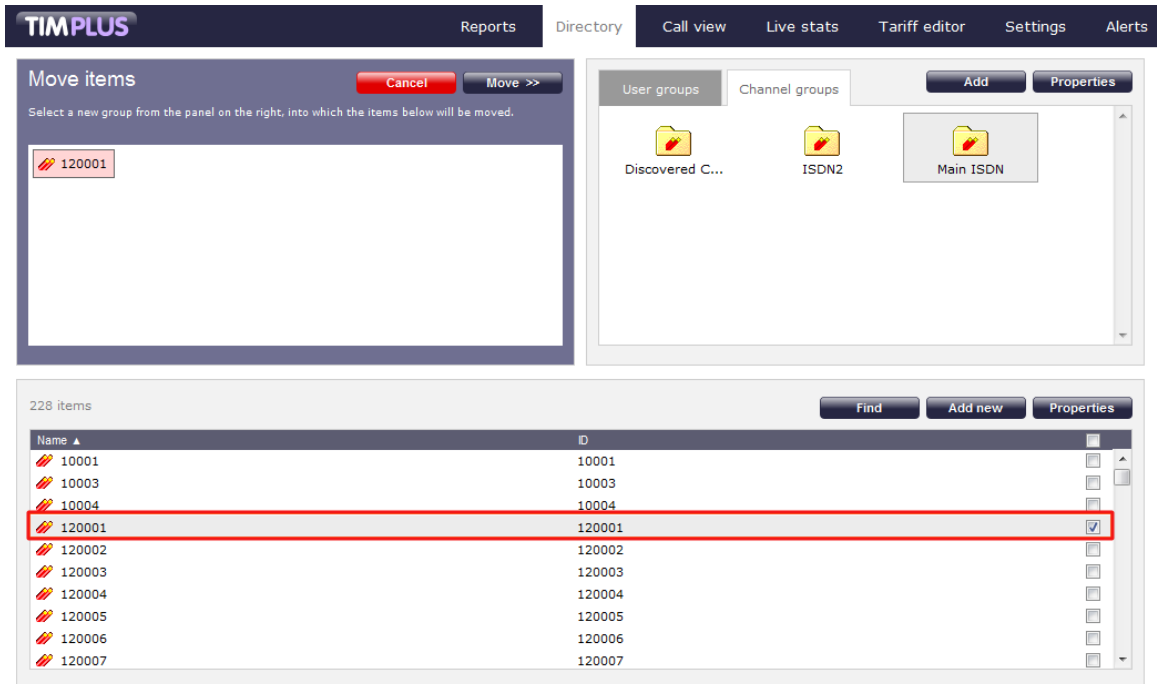
A new window will open, allowing you to edit the properties of the channel. Click **Save** to apply the changes.



Moving a channel between two groups

Follow the steps below to move a channel from one group to another.

1. Click on the **Directory** tab and select the group which contains the channel you want to move.
2. Select the channel, by ticking the box alongside it. The top-left panel of the screen will temporarily change to a **Move items** panel containing the selected channel.



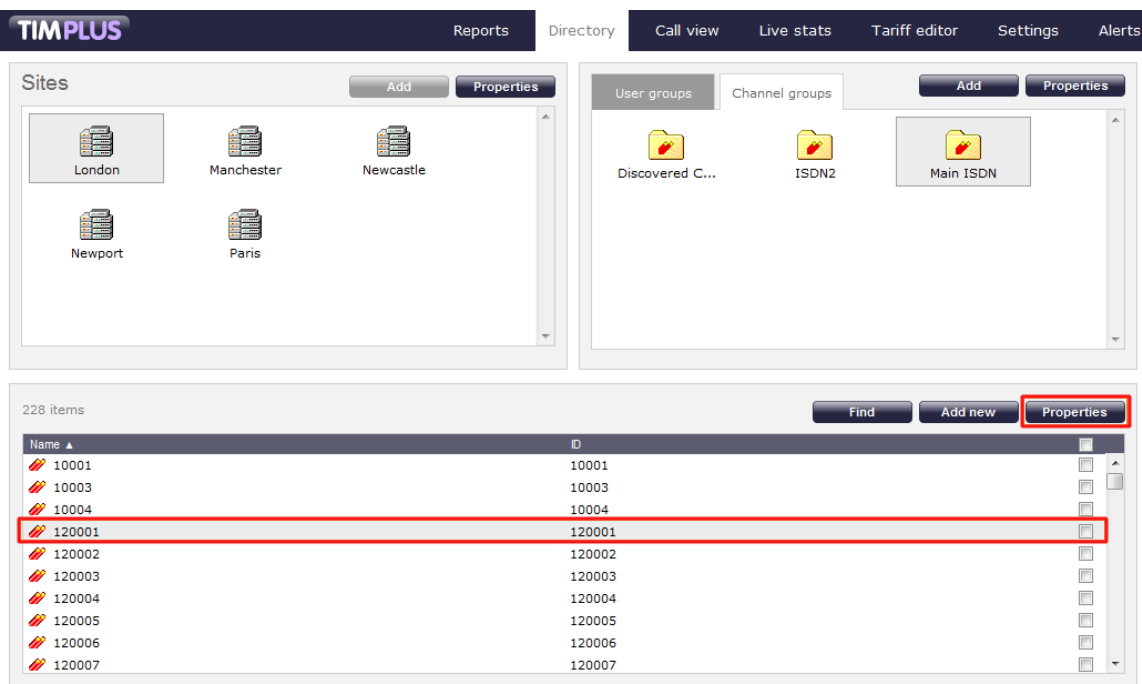
3. Next, select the destination group that you want the channel to be moved into, and click on the **Move** button.

Deleting a channel

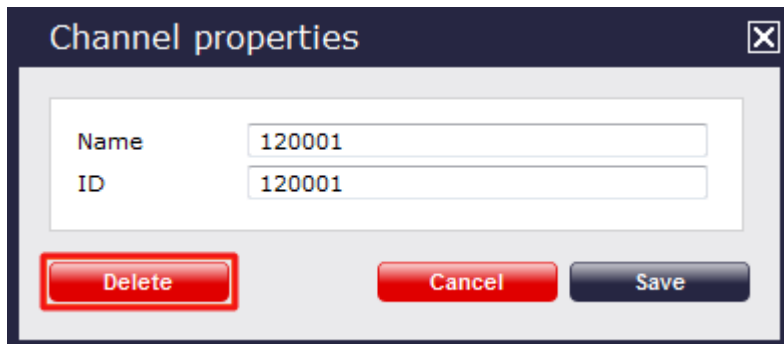


When you delete a channel, you are also deleting the calls associated with that channel!

To delete a channel from the system, select it and click on the **Properties** button at the top-right corner of the Contents panel:



In the **Channel properties** window that will open, click on the **Delete** button to remove the channel from the Directory; a confirmation will be required, to prevent channels being deleted accidentally.



Call view

The **Call view** screen displays a live list of calls, showing each call the moment it is received from your telephone system(s) and successfully processed by TIM Plus. The call list is arranged so that the most recent calls are at the top of the list.

TIMPLUS							Reports	Directory	Call view	Live stats	Tariff editor	Settings	Alerts
Most recent calls							Clear	Columns	Save				
Time	Source	Route	Destination	Datasource	Duration	Cost							
18:02:53	Jason Myers	13366	Orson Carte	London	00:00:33	0.00							
18:02:16	O2	07710500475	Sarah Lee	London	00:08:56	0.00							
18:01:23	London	02079110166	Billy Elliot	London	00:01:45	0.00							
18:00:18	Orange	07854107769	Simon Mason	London	00:00:36	0.00							
18:00:06	London	02076122530	Lance King	London	00:00:51	0.00							
17:57:46	Sam Thornton	2063	Greg Richards	London	00:00:31	0.00							
17:56:56	May Day	02071523915	London	London	00:00:49	0.08							
17:56:33	T-Mobile	07958527131	Mika Stai	London	00:01:13	0.00							
17:55:38	London	02074477680	Grace Harper	London	00:00:52	0.00							
17:52:43	Eve Royal	07932807770	T-Mobile	London	00:00:05	0.03							
17:52:13	Vodafone	07775584498	Ty Knotts	London	00:00:23	0.00							
17:52:01	T-Mobile	07960389762	Linda Palmer	London	00:01:08	0.00							
17:48:48	London	02074004500	George Evans	London	00:01:40	0.00							
17:48:08	London	02074247500	Gail Storm	London	00:01:11	0.00							
17:48:03	Orange	07854180526	Pauline Hunter	London	00:01:24	0.00							
17:47:13	Vodafone	07786802296	Misty Shore	London	00:00:18	0.00							
17:46:58	124001	UNAVAILABLE	William Masters	London	00:03:34	0.00							
17:45:31	120014	UNAVAILABLE	Jason Myers	London	00:00:29	0.00							

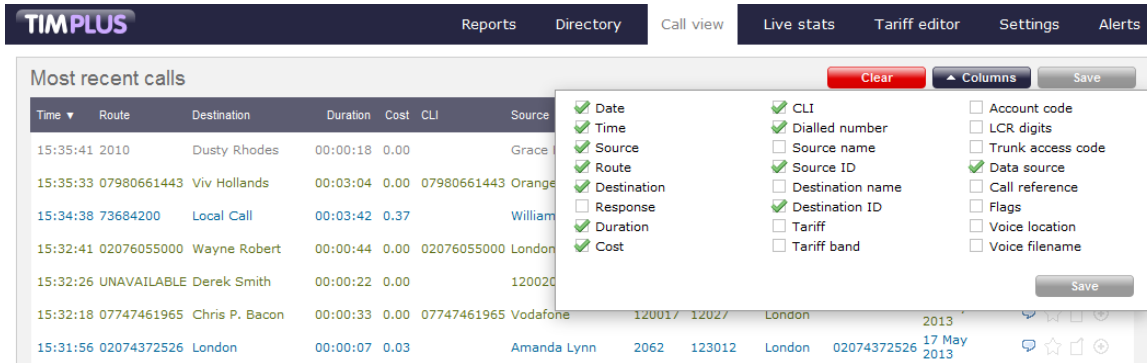
Each call type is colour-coded using a system-wide colour scheme, as follows:

- **Green:** Incoming calls
- **Light green:** Answered transferred calls
- **Blue:** Outgoing calls
- **Light blue:** Outgoing non-connected calls
- **Grey:** Internal calls
- **Mauve:** Internal non-connected calls
- **Red:** Abandoned DDI (Direct Dialed In) calls
- **Pink:** Tandem calls

i The calls you see in the **Call view** screen pertain only to the area to which the logged-in user has been granted access; administrators see calls from all sites.

Column headers

The Call view screen can be customised by each web user to show only the columns they are interested in. To add or remove columns, click on the **Columns** tab, which will display the following panel:











Include a column header in the list by ticking the box alongside each one. Click the **Save** button to apply your changes.

Each column header displayed in the Call view list is described in the table below:

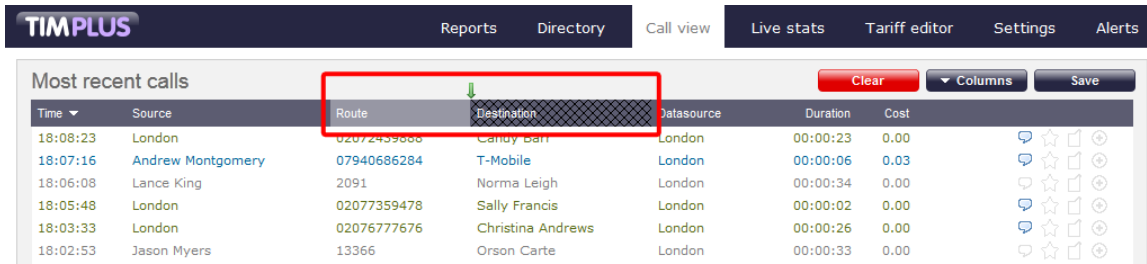
Field name	Description
Date	The date the call started
Time	The time the call started
Source	The place from where the call originated
Route	The information displayed in this field is determined by the type of call: <ul style="list-style-type: none"> for incoming calls, this shows the CLI of the caller; for incoming internal calls, this shows either the caller's username or extension number; for outgoing calls, this shows the dialed number.
Destination	The information displayed in this field is determined by the type of call: <ul style="list-style-type: none"> for incoming calls, this shows the name of the user whose extension answered the call, or the extension number if not available; for outgoing calls, this shows the geographical location that was dialed, or an alias if defined in your contacts list; for internal calls, this shows the extension that was dialed, enclosed in square brackets [].
Response	The time it took for the call to be answered (in seconds)
Duration	The duration of the call (in hours, minutes and seconds)
Cost	The cost of the call
CLI	The telephone number of the remote caller for inbound calls

Dialled number	The number that was dialled in order to reach a particular destination
Source name	The name of the person who made the call
Source ID	The ID of the person who made the call
Destination name	The name of the destination called, e.g. Manchester, Tri-Line, London
Destination ID	The ID of the destination called
Tariff	The name of the tariff table that was used to cost the call, e.g. BT
Tariff band	The specific tariff band that was used to cost the call, e.g. International, National, Mobile etc.
Account code	The account code associated with the call
LCR Digits	The Least Cost Routing (LCR) digits used to route the call
Trunk access code	The trunk access code used to access a group of channels
Data source	The location where the call originated
Call reference	Any call reference number associated with the call

<p>Flags</p>	<p>Any flags associated with a call, as described below:</p> <ul style="list-style-type: none"> ▪  The call has no associated voice recording ▪  The call has an associated voice recording; click on the icon to listen to the call ▪  The call has not been scored; click on the icon to score the call ▪  The call has been scored; click on the icon to review scoring information for the call ▪  The call has not been annotated; click on the icon to add a note to the call ▪  The call has one or more associated notes; click on the icon to review the note(s) ▪  The call has no related transfer legs ▪  The call has related transfer legs; click on the icon to view all transfers associated with the call 	
<p>Voice location</p>	<p>The unique ID of the call recording device that captured audio for the call</p>	
<p>Voice filename</p>	<p>The unique call reference identifying any voice recording associated with the call</p>	

Reordering column headers

Each column header can be reordered by clicking and dragging it to the new location, as shown below:



Time	Source	Route	Destination	Datasource	Duration	Cost	
18:08:23	London	02072459888	Caridy Barr	London	00:00:23	0.00	🗨️ ⭐ 📄 ↺
18:07:16	Andrew Montgomery	07940686284	T-Mobile	London	00:00:06	0.03	🗨️ ⭐ 📄 ↺
18:06:08	Lance King	2091	Norma Leigh	London	00:00:34	0.00	🗨️ ⭐ 📄 ↺
18:05:48	London	02077359478	Sally Francis	London	00:00:02	0.00	🗨️ ⭐ 📄 ↺
18:03:33	London	02076777676	Christina Andrews	London	00:00:26	0.00	🗨️ ⭐ 📄 ↺
18:02:53	Jason Myers	13366	Orson Carte	London	00:00:33	0.00	🗨️ ⭐ 📄 ↺

Columns can be sorted by clicking the relevant column header, with each click toggling between ascending and descending order. A small triangle is displayed alongside the column header to indicate the current sorting order.

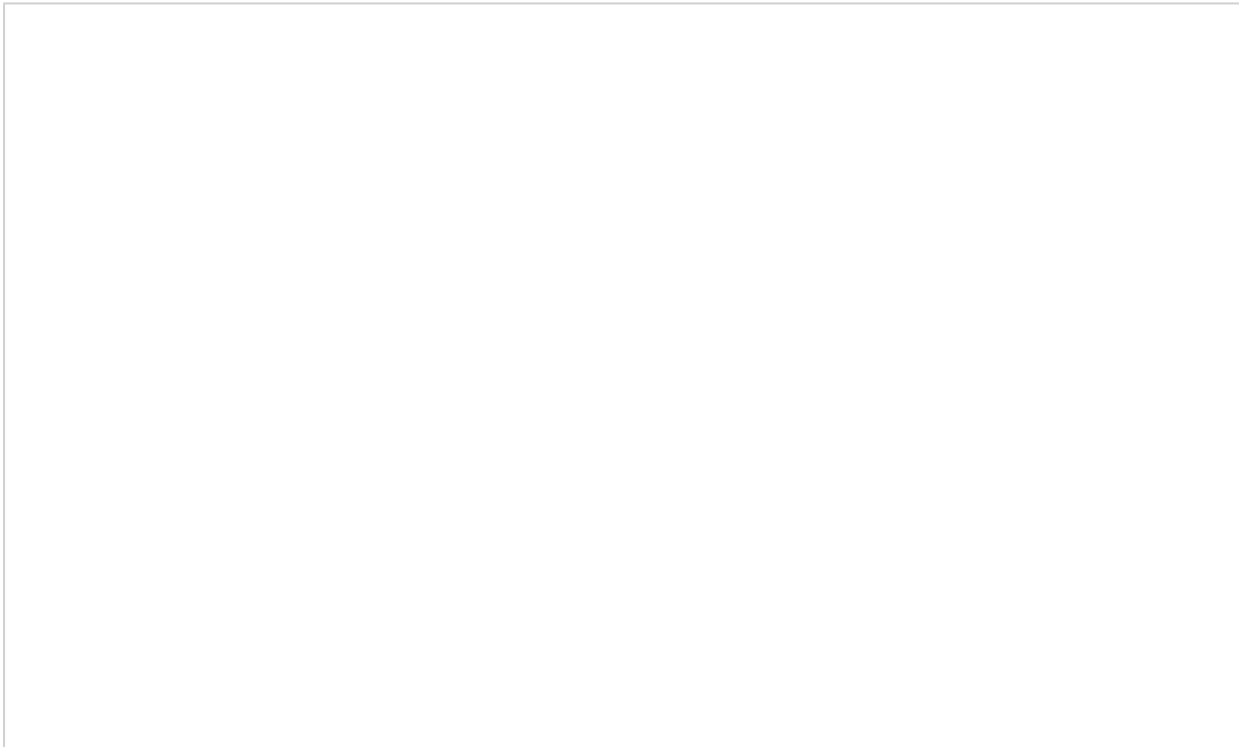


Any layout changes you make to the Live calls panel are saved only for the current web user and do not affect other web users.

Live stats

Display boards






Display boards overview video




What is a display board?

A display board is a user-definable screen that can comprise any live, up-to-the-minute information, such as call statistics, leaderboards or RSS feeds. It can also pull content from third-party systems, such as sales management, accounting or CRM software.

Starting from either a blank canvas or from a pre-defined template, a display board can be customised by adding any combination of the following types of panel, using an on-screen designer:

-  **Label panel**
-  **Leaderboard panel**
-  **Summary panel**
-  **RSS panel**
-  **Web panel**


The example below shows a display board containing a label panel at the top of screen, a leaderboard panel on the left-hand side, and a series of 6 summary panels on the right-hand side. An RSS panel is displayed at the bottom of the screen. At the top-left corner of the display board, an additional transparent label panel was added to represent a company logo.



All Telesales

19:47:31

Best performers					Summary stats	
Pos	Name	Calls ▼	Total dur	Avg dur	Total In	Longest In
1	Grace Harper	24	00:51:43	00:02:09	107	00:09:16
2	Christina Andrews	22	00:40:13	00:01:50		Grace Harper
3	Mark Longhorn	21	00:24:25	00:01:10	14	00:04:27
4	Sally Gansa	12	00:14:32	00:01:13		Lee Faithful
5	Ricardo De Souza	12	00:25:30	00:02:08	0	0.44
6	Jason Myers	12	00:22:17	00:01:51		Lee Faithful
7	Billy Elliot	7	00:16:37	00:02:22		
8	Malcolm Meehan	3	00:02:28	00:00:49		
9	Lee Faithful	3	00:05:04	00:01:41		



Fire rages near N. Mexico nuclear plant
 The fire is about a mile from the Los Alamos National Laboratory. All nuclear materials are protected, lab officials said in a statement.

The following pages contain details of how to create and customise display boards.

How are display boards populated?

Whilst display boards can be populated by various external data feeds, their principal use is to display up-to-the-minute information about your organisation's phone calls, for which objects known as "stats points" are employed. These statistics collection points are mathematical "counters" whose scope is determined by their placement in your directory hierarchy. For example, placing a stats point inside a specific user group ensures that call information is collected only for users that inhabit the selected group. Similarly, placing a stats point inside a site will collect only call information for the chosen site.

Additionally, when configuring a stats point, a subject must be specified, which determines the property of each call whose value will be used when grouping its collated information into distinct sets. For example, specifying a subject of "user" will group its collated call information into sets of data for each distinct user.

Stats points are defined in the tab on the screen, as shown below:

TIMPLUS Reports Directory Call view Live stats Tariff editor Settings Alerts

Display boards Stats points Stats alarms Refresh Add Properties

Name	Subject	Covering period	Next reset	Status
All Sites Stats	User	1 day	18 May 2012 00:00:00	Loaded
Answered	Dialled number	1 day	18 May 2012 00:00:00	Loaded
Busy Lines	Channel group	1 day	18 May 2012 03:00:00	Loaded
Channels London	Channel group	1 day	18 May 2012 06:53:20	Loaded
Daily London Service	User	1 day		Loaded
Daily London Telesales	User	1 day	18 May 2012 00:00:00	Loaded
DailyStats	User	1 day		Loaded
Dialled Numbers	Dialled number	1 day	18 May 2012 00:00:00	Loaded
Hourly London Sales	User	1 hour		Loaded
London ALL	User	1 week	18 May 2012 03:33:20	Loaded
London Service weekly	User	1 week	20 May 2012 00:00:00	Loaded
London Telesales	User	1 day	18 May 2012 00:00:00	Loaded
Marketing weekly	User	1 week		Loaded
Michaels team	User	1 day	18 May 2012 00:07:00	Loaded
Missed	User	1 day	18 May 2012 00:00:00	Loaded
New users	User	5 minutes		Loaded
Remote Workers	User	1 week	20 May 2012 00:01:00	Loaded
Sales London	User	1 week	20 May 2012 00:00:00	Loaded
Sales Test	User	1 day	18 May 2012 00:00:00	Loaded
Service Daily London	User	1 day	18 May 2012 00:00:00	Loaded
Test	User	1 day	18 May 2012 00:00:00	Loaded

For more information about stats points and how to create them, refer to the [Stats points](#) section.

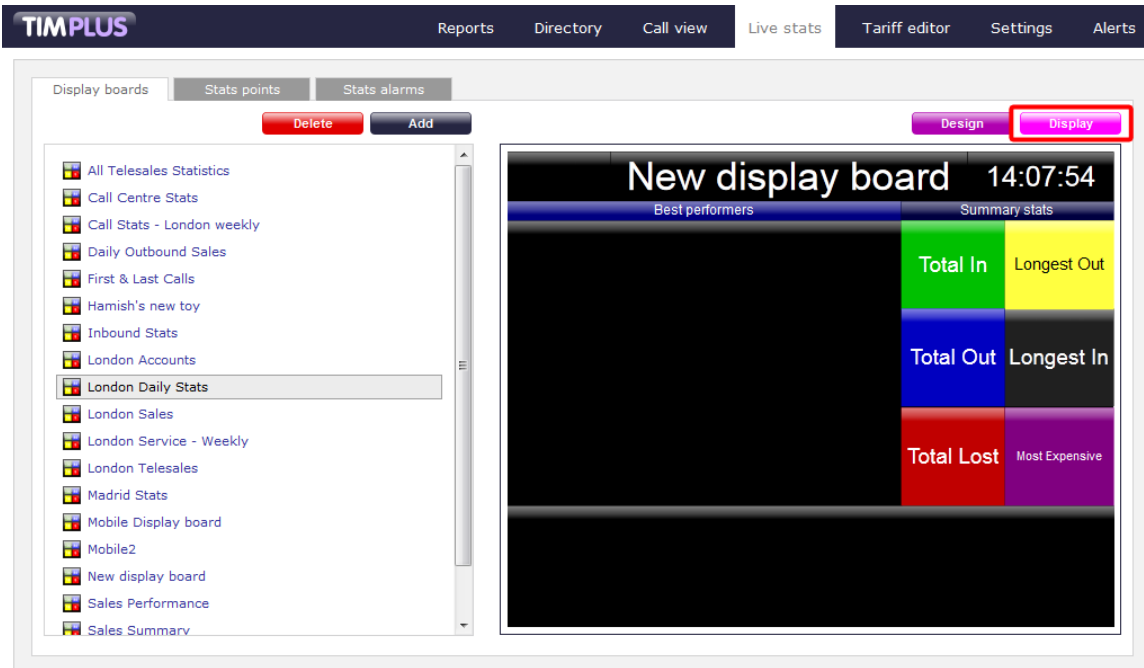
i In order to create a display board containing call information, at least one stats point must be defined first.

Accessing the display boards

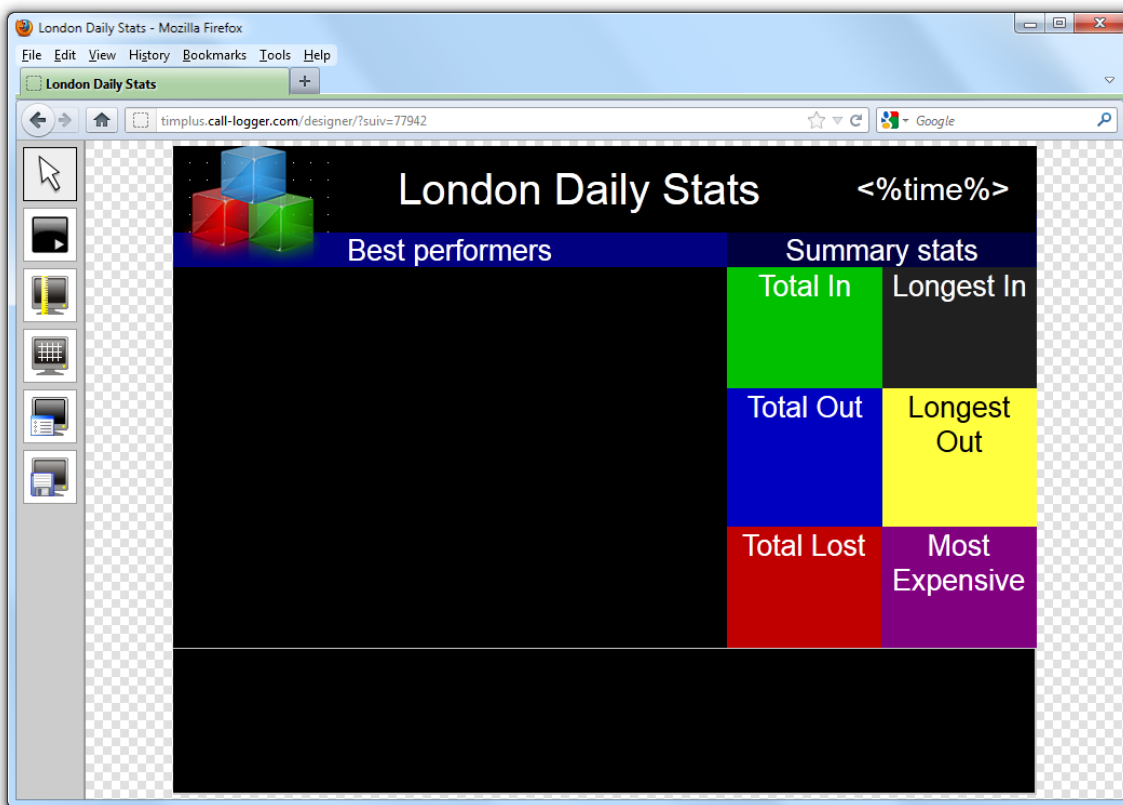
To access your display boards, click on the **Live stats** tab and a list of display boards will appear on the left-hand panel.

i The list of display boards you are allowed to see depends on the place of your login account in the Directory. To be able to see additional display boards, contact your system administrator.

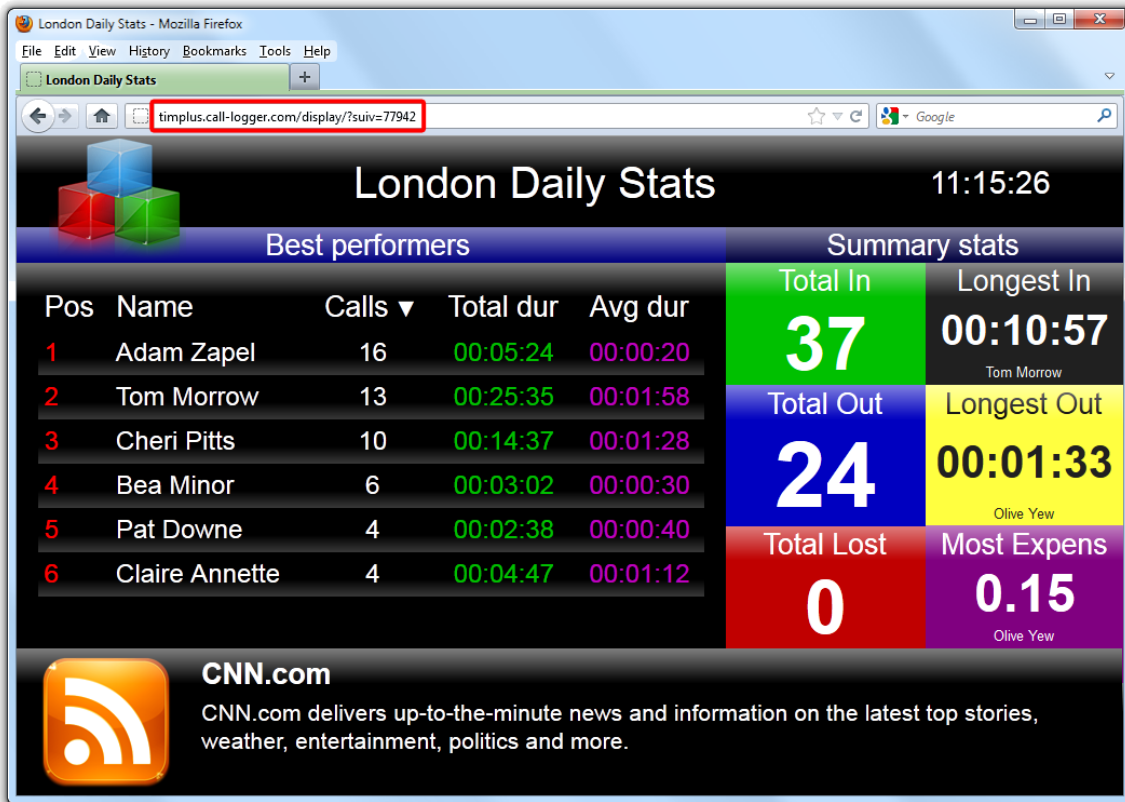
To view a display board, click on the **Display** button, as shown below:



To design or edit a display board, click on the **Design** tab. The design mode of your display board will display as follows:



To access a display board directly, type its URL in the address bar of your web browser, as shown below:



The URL of the display board can be saved in your Favorites, to your desktop or mobile device - if you need to view this screen frequently. Alternatively, you may want to display this permanently on a large screen in your office so that everyone in your team can monitor the statistics.

Adding a display board

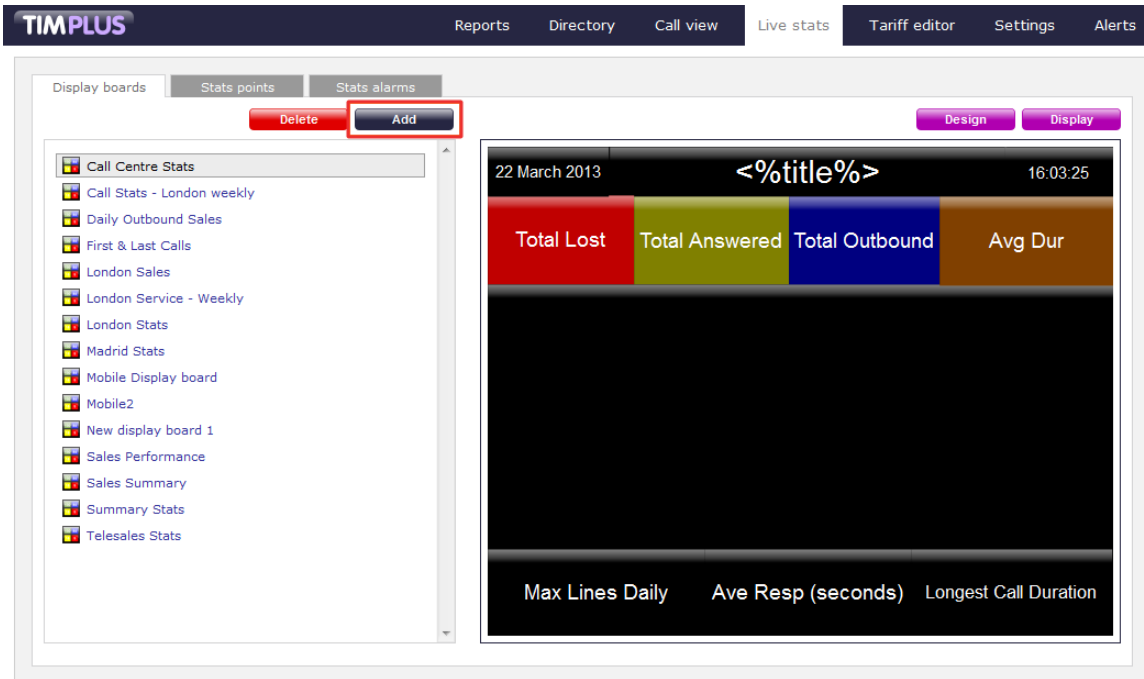
Adding a display board

- How to create a display board
- Create blank
- Create from template
- Create from an existing display board
- Restrict access to display boards

How to create a display board

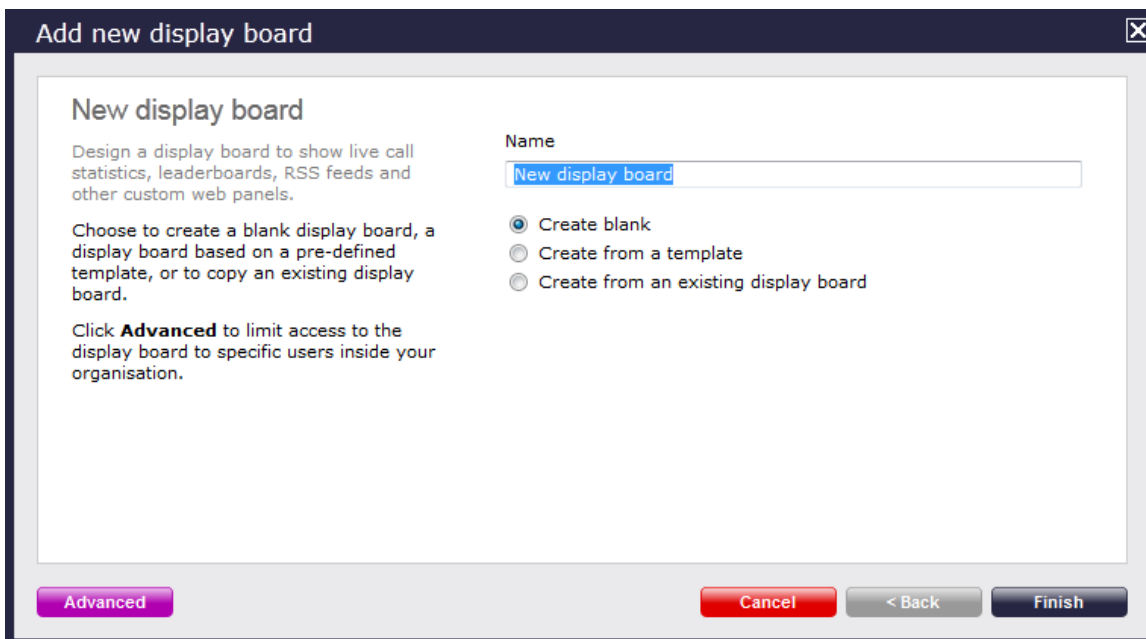
i Before creating a display board, you must create a stats point object to populate it.

To add a new display board, select the **Live stats** tab and click on the **Add** button at the top-right corner of the **Display boards** list, as shown below:



A new window will open, allowing you to select one of the following three options:

- **Create blank:** This option allows you to design your own display board from scratch
- **Create from a template:** This option allows you to choose a predefined display board template
- **Create from an existing display board:** This option allows you to create a new display board based on an existing template



Create blank

To design your own display board from scratch, select the **Create blank** option and click on the **Finish** button, as shown below:

Add new display board

New display board

Design a display board to show live call statistics, leaderboards, RSS feeds and other custom web panels.

Choose to create a blank display board, a display board based on a pre-defined template, or to copy an existing display board.

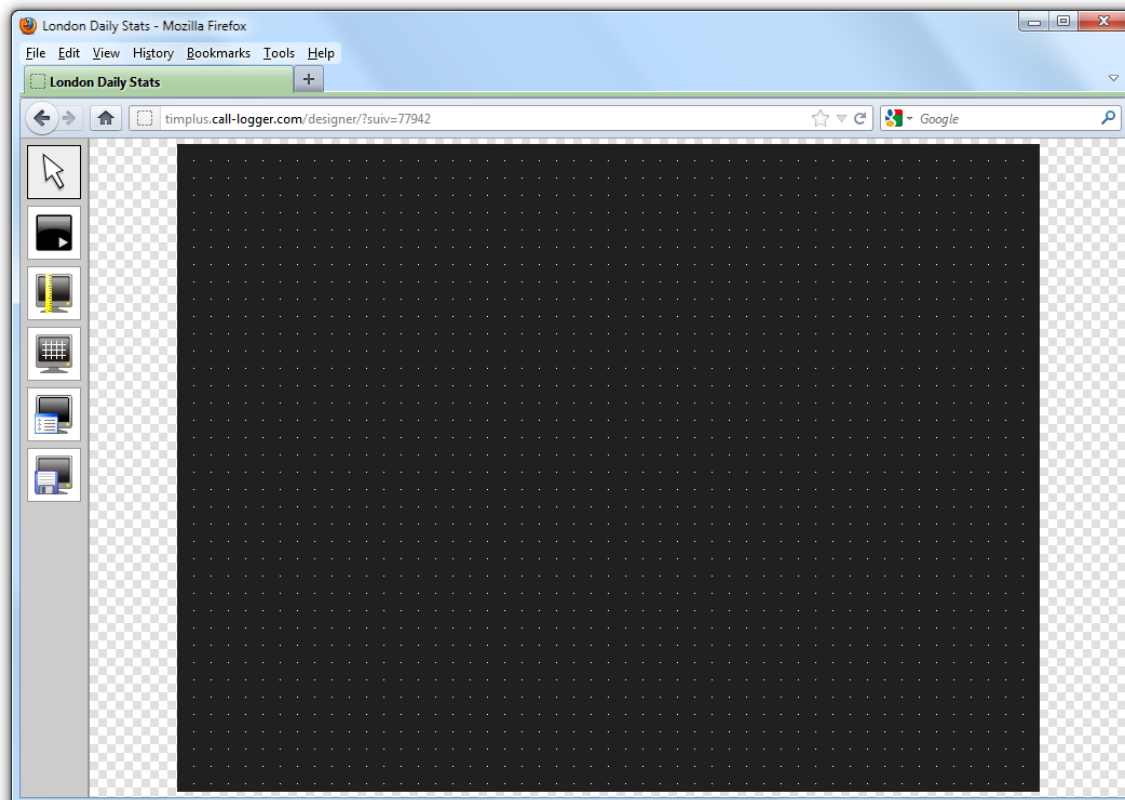
Click **Advanced** to limit access to the display board to specific users inside your organisation.

Name
New display board

Create blank
 Create from a template
 Create from an existing display board

Advanced **Cancel** < Back **Finish**

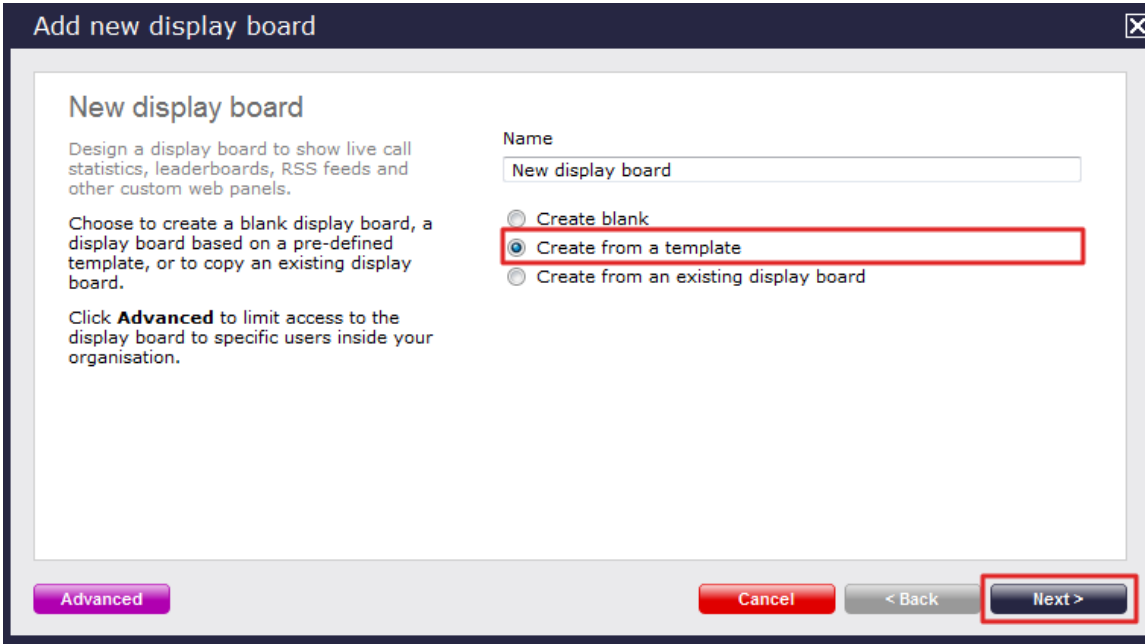
A new window will open, showing the design mode of your display board, as shown below:



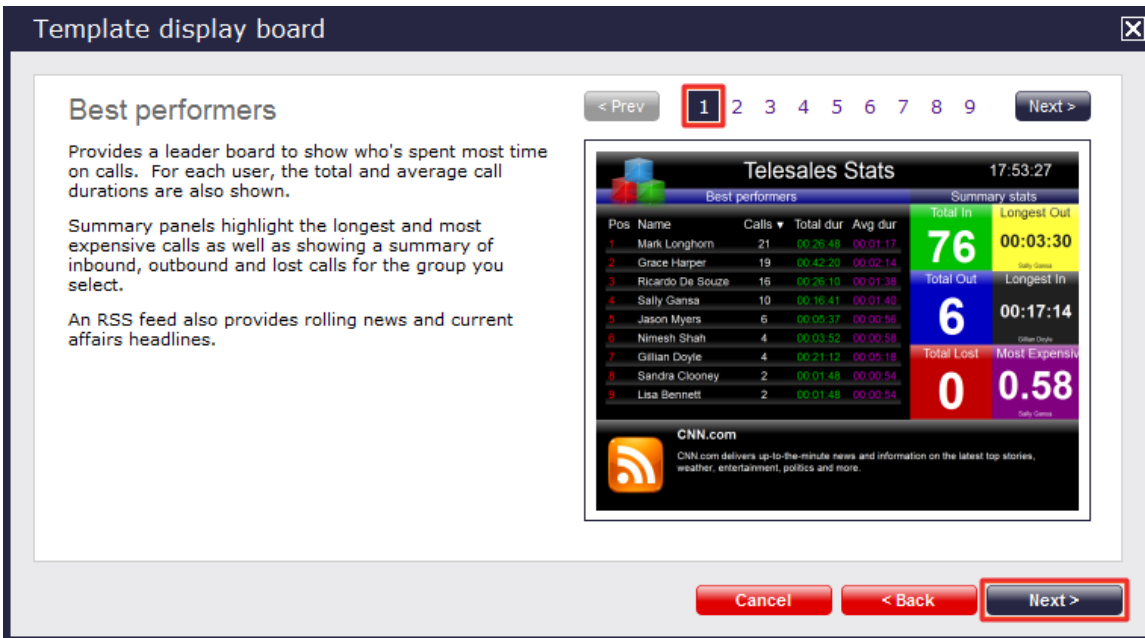
For information on how to design your own display board, refer to the [Designing a display board](#) section.

Create from a template

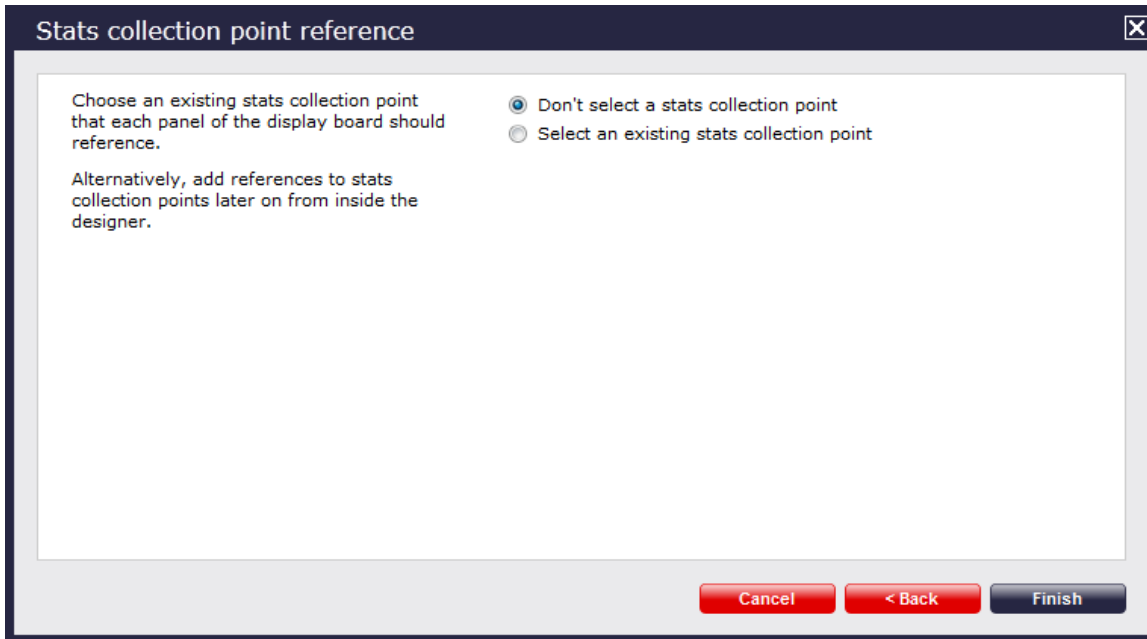
To create a display board from a predefined template, select the **Create from template** option, then click on the **Next** button, as shown below:



You can now select from a series of predefined templates, by clicking on its associated number, then click on the **Next** button.

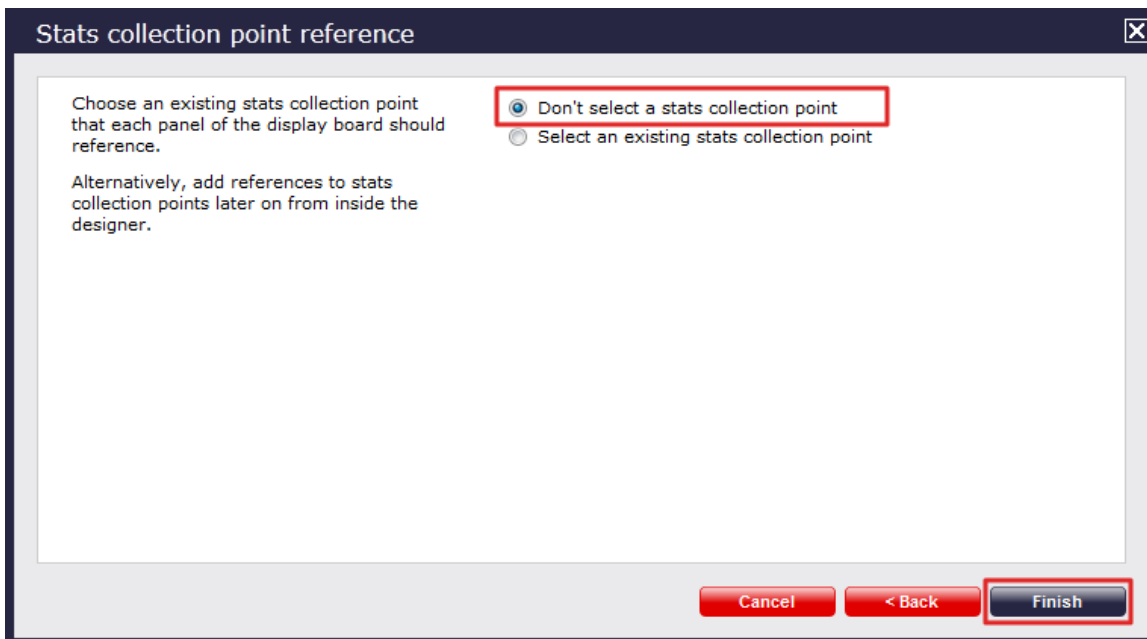


At this stage, you are asked to select a stats collection point or skip to the next section.



Don't select a stats collection point

If you don't want to select a stats point at this time, click **Finish** and your display board will be added to the `Display boards` list. A stats point can be added at a later stage, by accessing the `Designmode` of your display board. For information on how to configure a stats collection point, refer to the [Adding a stats point](#) section.



The display board will be blank until a stats point is selected.

Select an existing stats collection point

If you select this option, a list with the existing stats points objects will be displayed, as shown below:

Stats collection point reference ✕

Choose an existing stats collection point that each panel of the display board should reference.

Alternatively, add references to stats collection points later on from inside the designer.

Don't select a stats collection point
 Select an existing stats collection point

Name ▲	Subject	Covering period
All Sites Stats	User	1 day
All Stats	User	1 day
Answered	Dialled number	1 day
Busy Lines	Channel group	1 day
Call Groups	Channel	1 day
Channels London	Channel group	1 day
Daily London Service	User	1 day
Daily London Telesales	User	1 day
DailyStats	User	1 day
Dialled Numbers	Dialled number	1 day
Hourly London Sales	User	1 hour
London ALL	User	1 week

Select the relevant stats point from the list and click on the **Finish** button to add the new display board to the **Display boards** list.

Create from an existing display board

To create a display board from an existing template, select the **Create from an existing display board** option and click the **Next** button.

Add new display board ✕

New display board

Design a display board to show live call statistics, leaderboards, RSS feeds and other custom web panels.

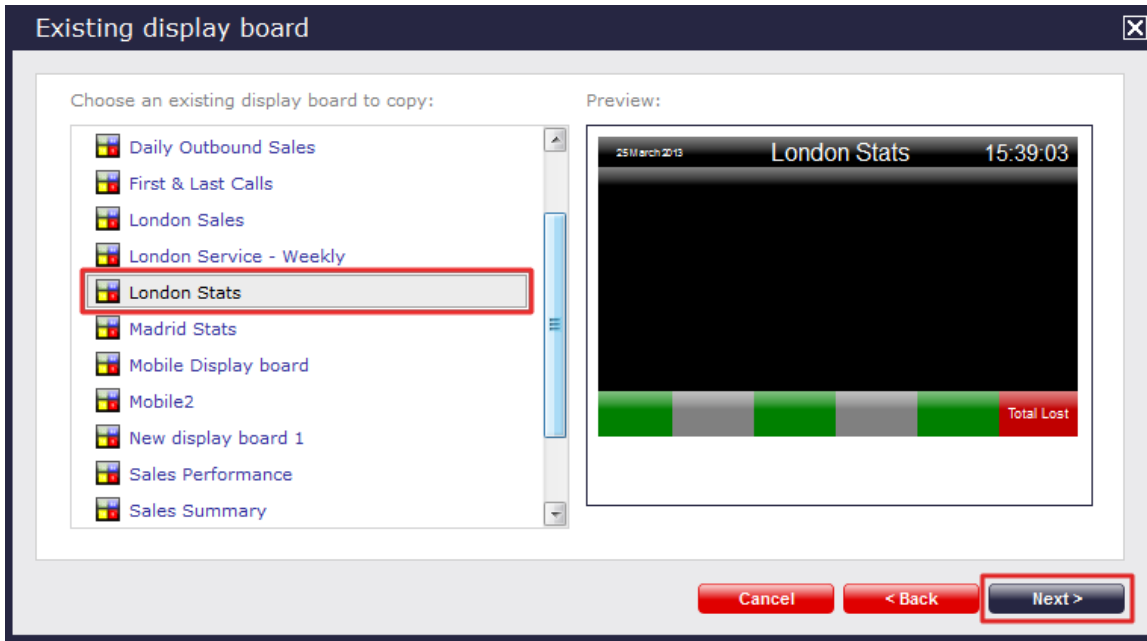
Choose to create a blank display board, a display board based on a pre-defined template, or to copy an existing display board.

Click **Advanced** to limit access to the display board to specific users inside your organisation.

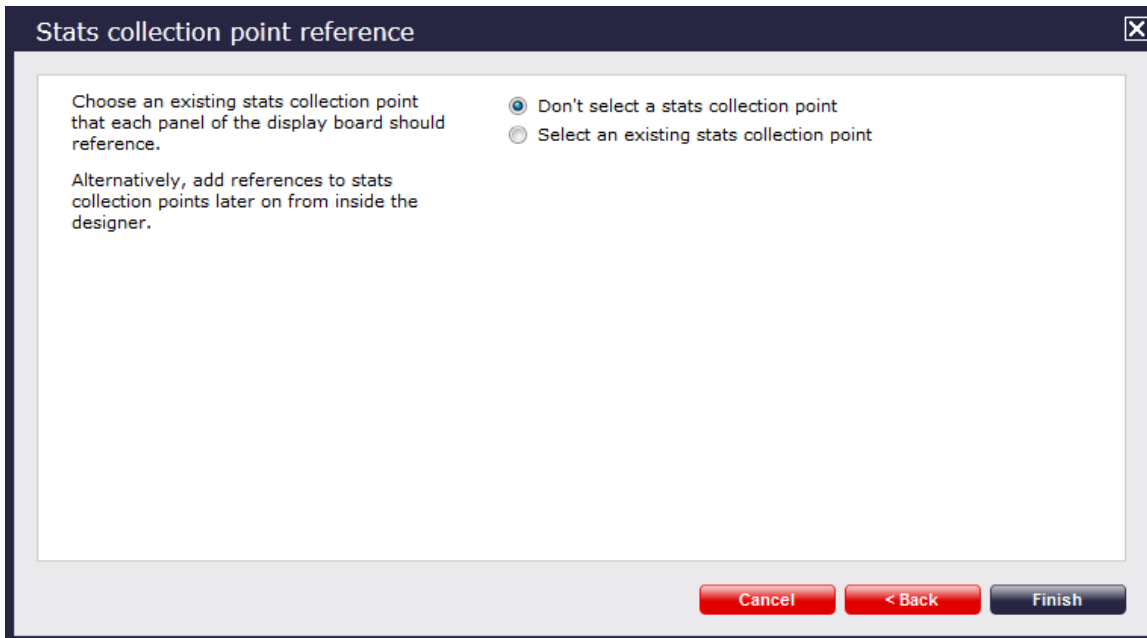
Name

Create blank
 Create from a template
 Create from an existing display board

A list with the currently-available display boards will be shown. Select the one you want to copy, then click on the **Next** button.

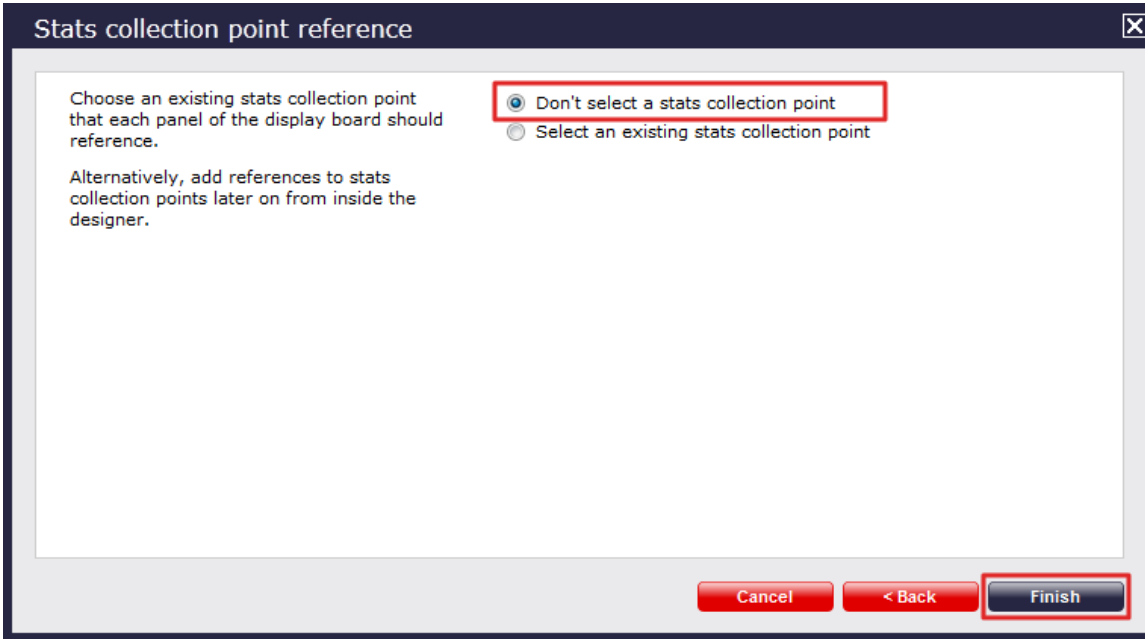


You are now given the option to add a stats collection point or skip this stage.



Don't select a stats collection point

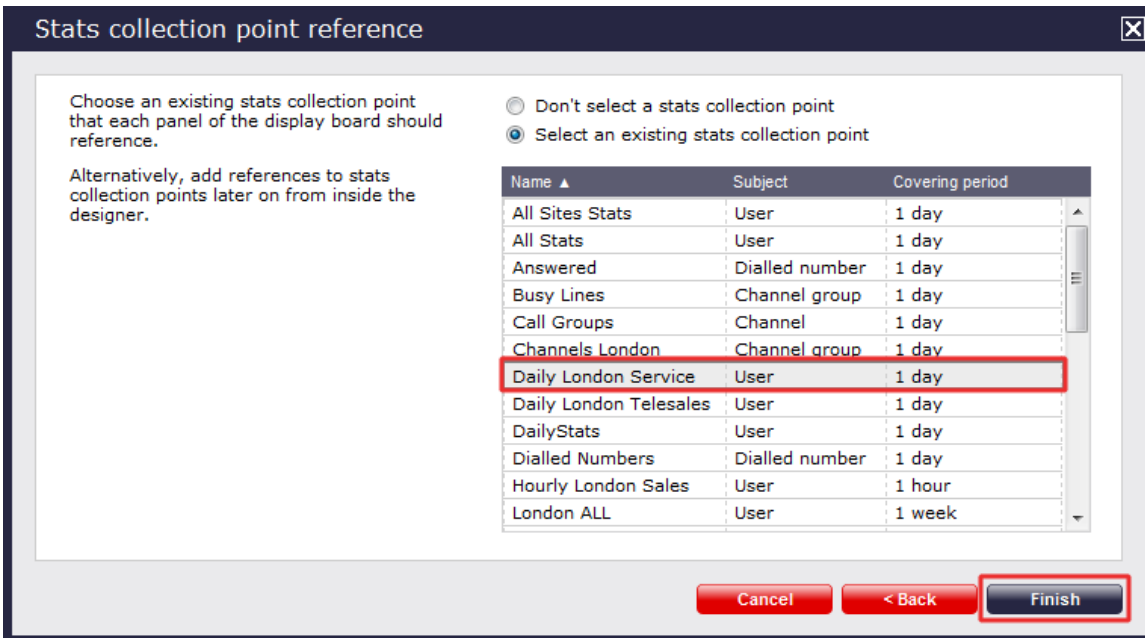
If you don't want to select a stats collection point at this time, click **Finish** and your display board will be added to the **Display boards** list. A stats point can be added at a later stage, by accessing the **Design** mode of your display board. For information about how to configure a stats collection point, refer to the [Adding a stats point](#) section.



i The display board will be blank until a stats point is selected.

Select an existing stats collection point

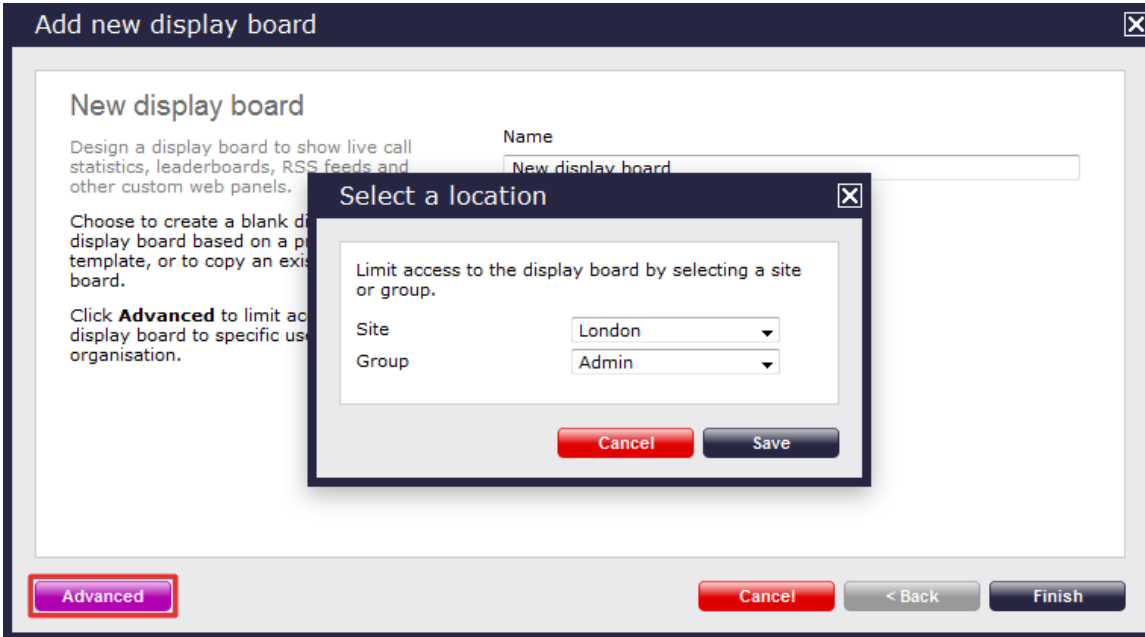
If you select this option, a list with the existing stats points objects will be displayed, as shown below:



Select the relevant stats point from the list and click on the **Finish** button to add the new display board in the **Display boards** list.

Restrict access to display boards

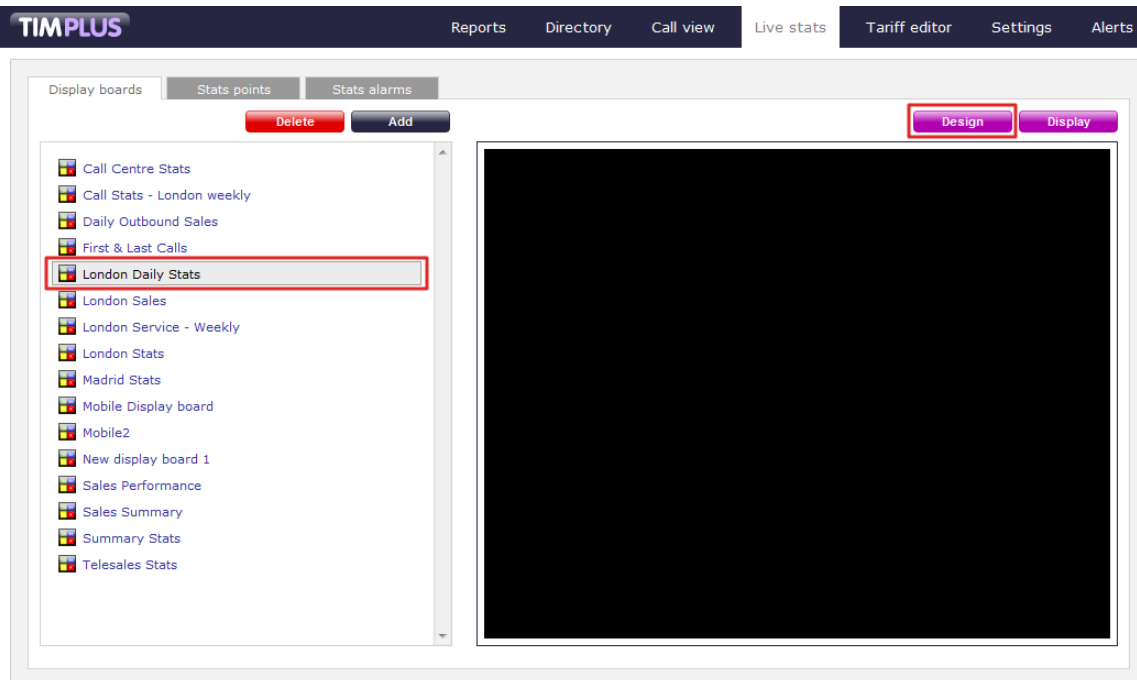
If you want to restrict specific web users from accessing a display board, click on the **Advanced** button at the bottom-left corner of the **Add new display board** window, and select the site and group to which you want to limit access to the display board:



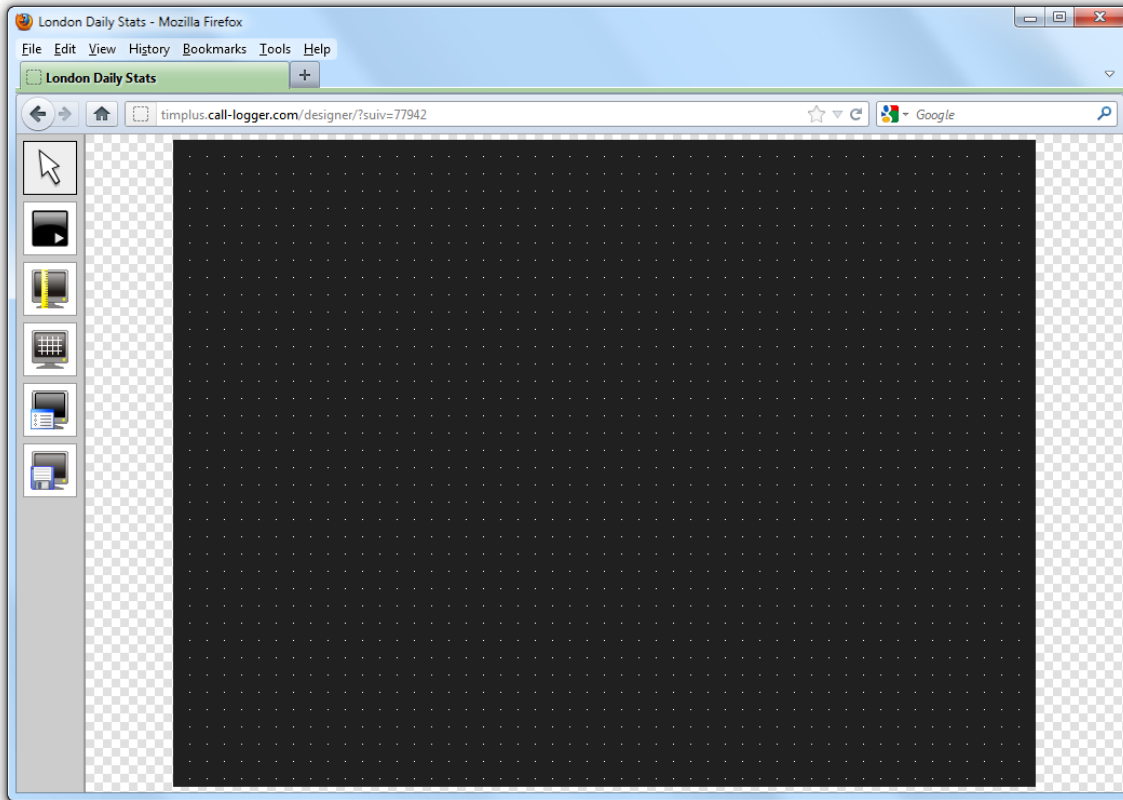
In the example above, your display board will be accessible to web users that have permissions to the `London-Admin` group. If a web user has access only to `London-Accounts` group, they will not be able to see this display board.

Designing a display board

To design a display board, select it from the `Display boards` list and click on the `Design` button at the top-right corner of the panel, as shown below:



If you opted to design your display board from scratch, the following screen will appear:



To add or edit panels in your display board, use the toolbar on the left-hand side of the panel. Each toolbar button is described below:



The pointer button

The pointer (selector) button allows you to select an object and alter its properties.



The panel type button

This button allows you to select the type of panel you want to add to the canvas. The available [panel types](#) are presented below:



Label panel



Leaderboard panel



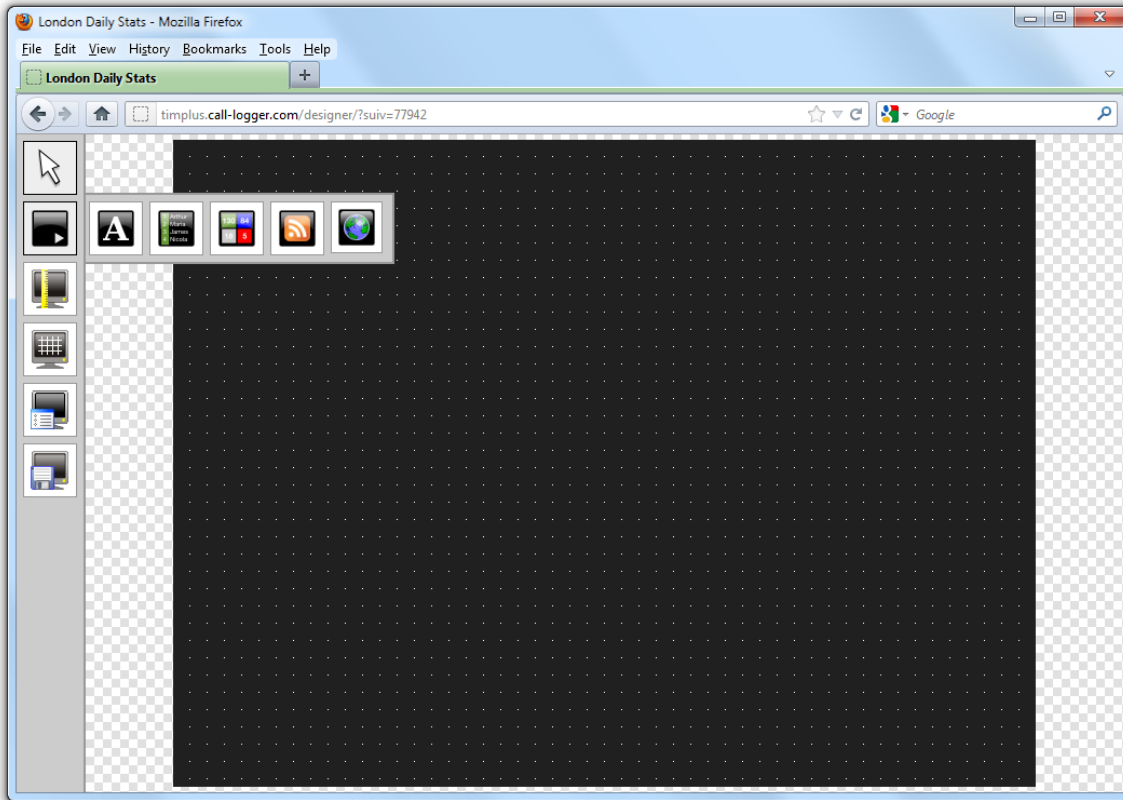
Summary panel



RSS panel



Web panel



The aspect ratio button

This button allows you to change the ratio of the screen. The defaults available are 16:10 and 4:3, but the board can be stretched to any value you set.



The grid button

The grid button is a simple toggle switch that shows or hides the grid.



The canvas settings button

This button allows you to change the background properties of the canvas.



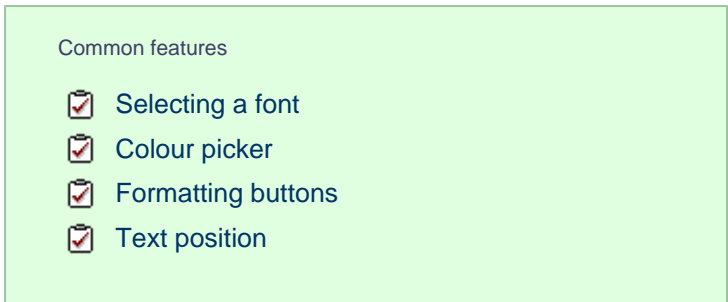
The save button

This button allows you to save any changes made to the canvas.

Display board panels

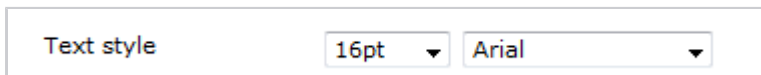
Common features

This section offers information about how to style the panels of your display boards.



Selecting a font

To select a font style or a font size, expand the drop-down list and choose from the available options, as shown below:



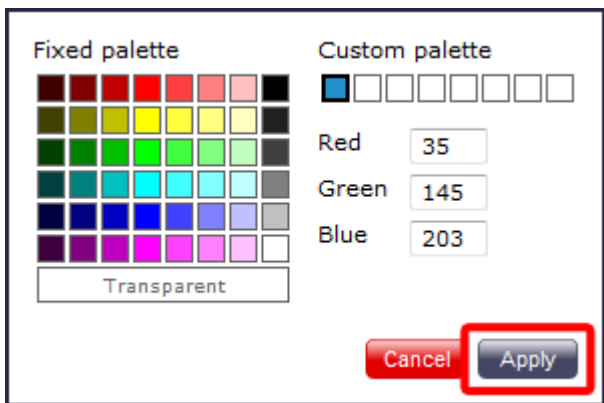
Colour picker

To select the colour of an object, click on the drop-down arrow to expand the colour palette.



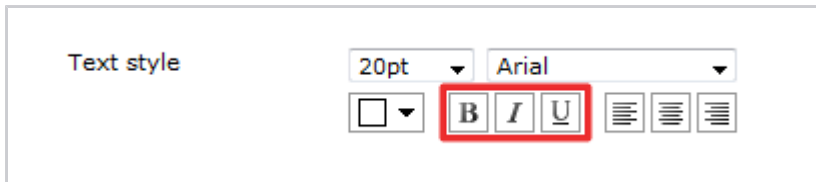
To select a standard colour, choose from the **Fixed palette** section. If you are adding an image, select the background to be transparent, so it doesn't interfere with the appearance of the image.

To select a custom colour, click on one of the blank colour squares and type the RGB colour codes to add it to your custom palette. Click on the **Apply** button to set the chosen colour:




Formatting buttons

If you would like the text in your display board to appear as bold, italic or underlined, click on the relevant **B I U** button, as shown below:

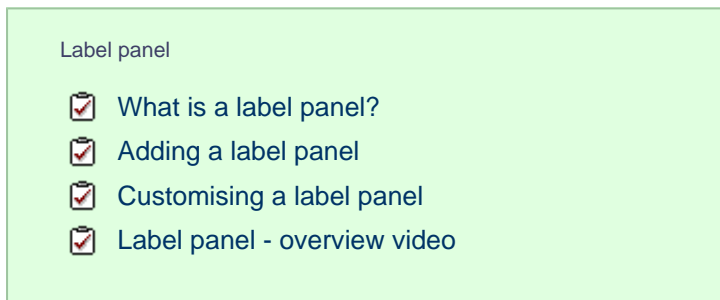


Text position

To determine the position of your text, click on the relevant  button, as shown below:



Label panel



What is a label panel?

The label panel allows you to add textual labels anywhere on your display board. These labels can consist of static text, dynamic text (such as the current date and time), and images (such as your company logo) by specifying no text but choosing a background image.

The example below shows how label panels - highlighted in red - appear on a display board; a large label panel, **All Telesales**, is shown at the top of the screen, followed by two smaller label panels, **Best Performers** and **Summary Stats**, describing the sections below them. Two further label panels were used to add a company logo (at the top-left of the page) and the current date and time (at the top-right of the page).

All Telesales 19:47:31

Best performers

Pos	Name	Calls	Total dur	Avg dur
1	Grace Harper	24	00:51:43	00:02:09
2	Christina Andrews	22	00:40:13	00:01:50
3	Mark Longhorn	21	00:24:25	00:01:10
4	Sally Gansa	12	00:14:32	00:01:13
5	Ricardo De Souza	12	00:25:30	00:02:08
6	Jason Myers	12	00:22:17	00:01:51
7	Billy Elliot	7	00:16:37	00:02:22
8	Malcolm Meehan	3	00:02:28	00:00:49
9	Lee Faithful	3	00:05:04	00:01:41

Summary stats



Total In 107	Longest In 00:09:16 <small>Grace Harper</small>
Total Out 14	Longest Out 00:04:27 <small>Lee Faithful</small>
Total Lost 0	Most Expensive 0.44 <small>Lee Faithful</small>

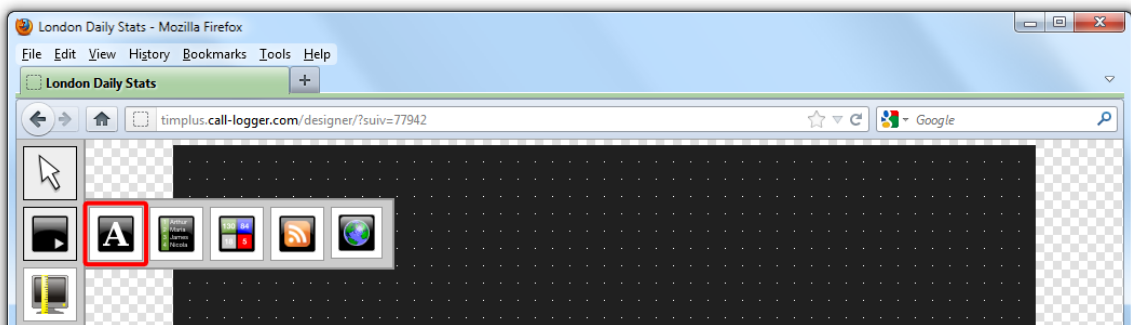
Fire rages near N. Mexico nuclear plant
The fire is about a mile from the Los Alamos National Laboratory. All nuclear materials are protected, lab officials said in a statement.

i There is no limit to the number of label panels you can use on a display board.

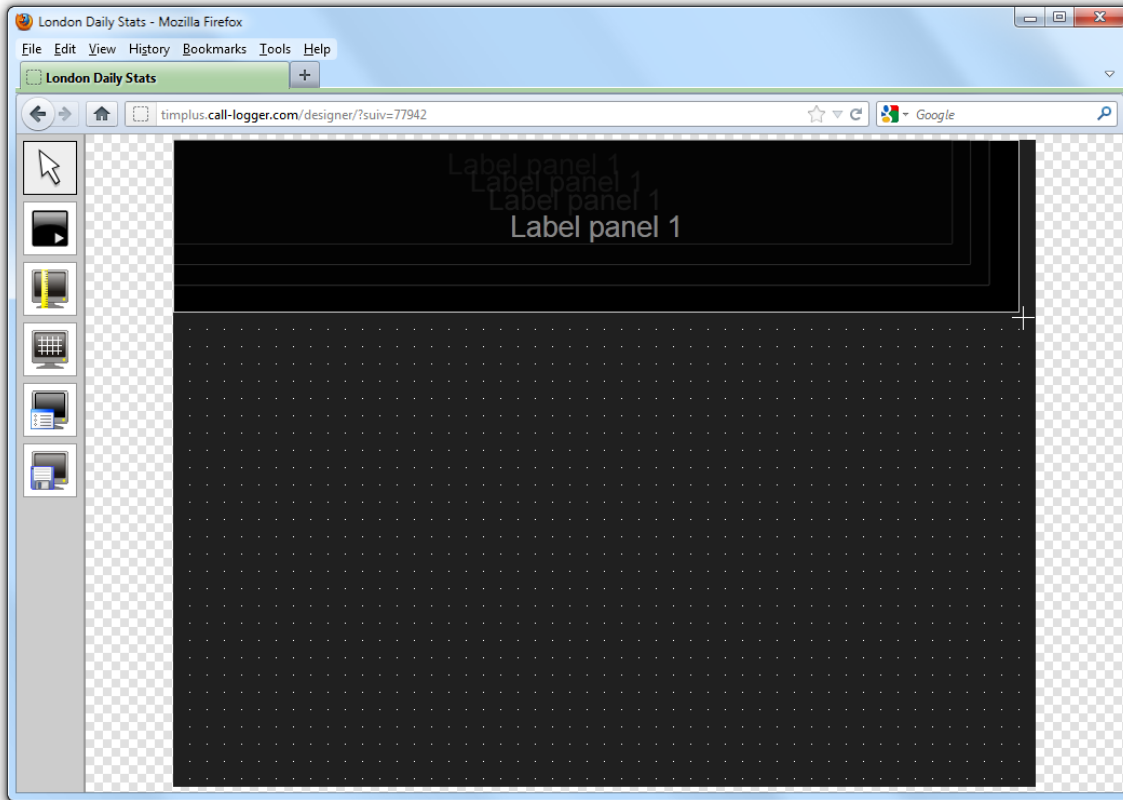
Adding a label panel



To add a label panel, click on the  toolbar button to expand the list of panel types and choose the  button, as shown below:





After selecting the label panel button, the mouse pointer changes into a white crosshair pointer, indicating that the designer is ready to draw your panel. Click and hold your left mouse button, starting at the point defining the upper-left corner of your new panel. Whilst still holding down the left mouse button, drag the marquee that will appear to the point that will define the lower-right corner of your panel, as shown below:



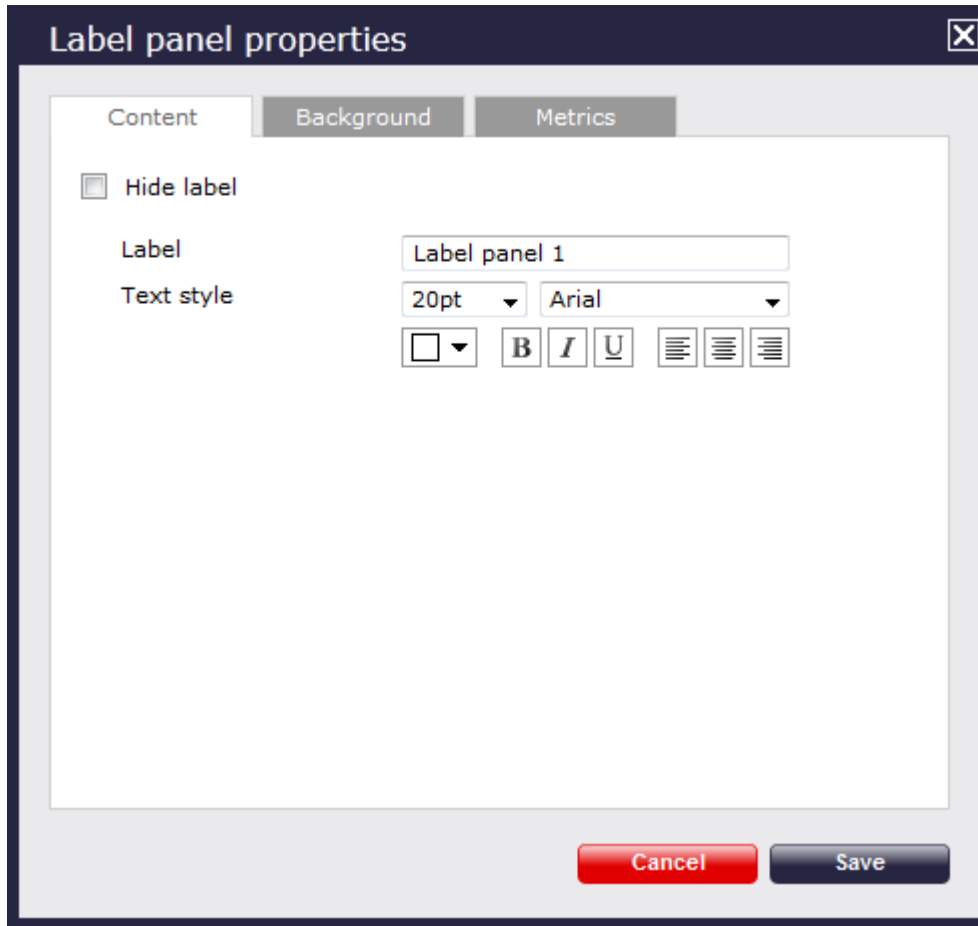
Customising a label panel



To customise a label panel, click on the  toolbar button to switch to panel selection mode. Hover your mouse pointer over the label panel you want to customise and click on the  icon, when it appears towards the top-right corner of the panel, as shown below:

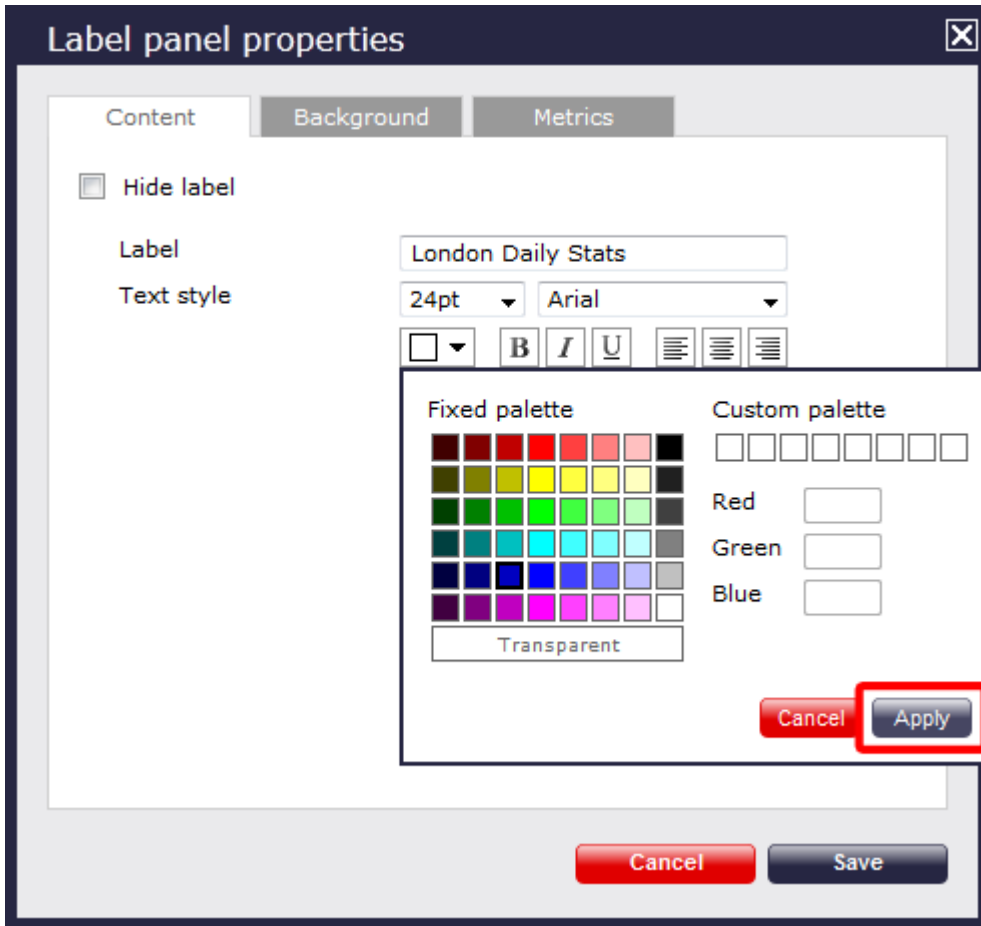


The **Label panel properties** window will open, containing the following tabs:



Content

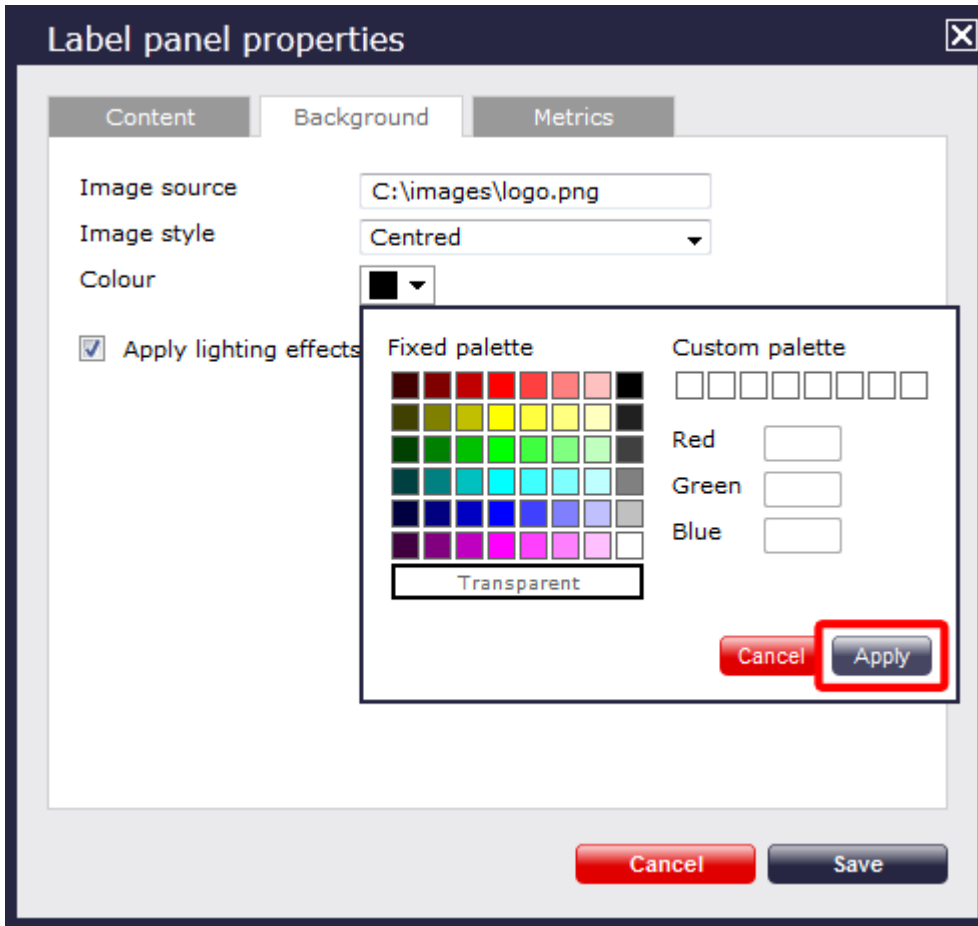
The **Content** tab allows you to enter the name you want to appear on the label panel and apply any [styling properties](#), such as font size, font style, text colour, etc.



Field	Description
Hide label	Tick this option if you don't want your panel to display the textual element, such as when you are adding a stand-alone image in the panel's background property
Label	Enter the text you want to appear on the label panel
Text style	Select any styling properties , such as font size, font style, text colour, etc.

Background

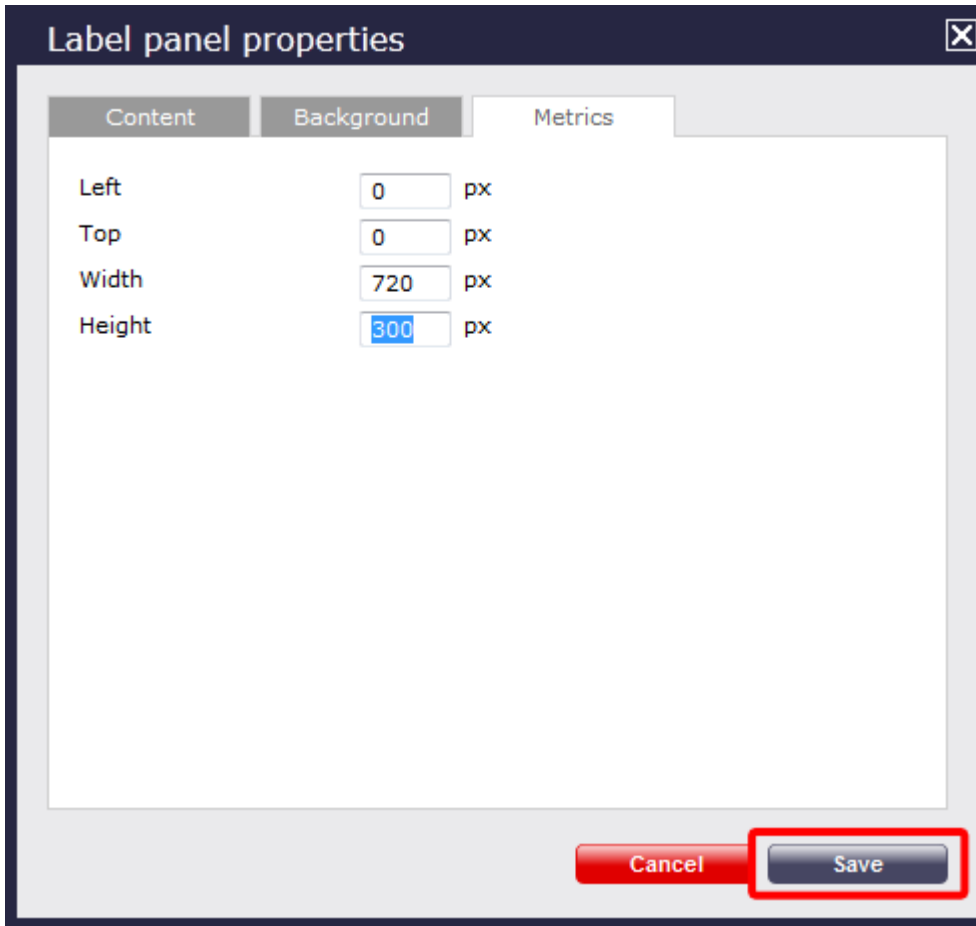
The Background tab allows you to configure the background properties of your label panel.



Field	Description
Image source	If you want your panel to display an image, type its source here. Remember, the path is relative to the folder on disk from which the web content is served, and is different for each class of web user
Image style	Choose how the image should be displayed
Colour	Choose the background colour of the panel; if you are adding an image, you may want to select Transparent so that this does not interfere with your image
Apply lighting effects to this panel	Tick this option to apply a shine effect to the entire panel; if you are using the panel to display an image, this may adversely affect how it appears

Metrics

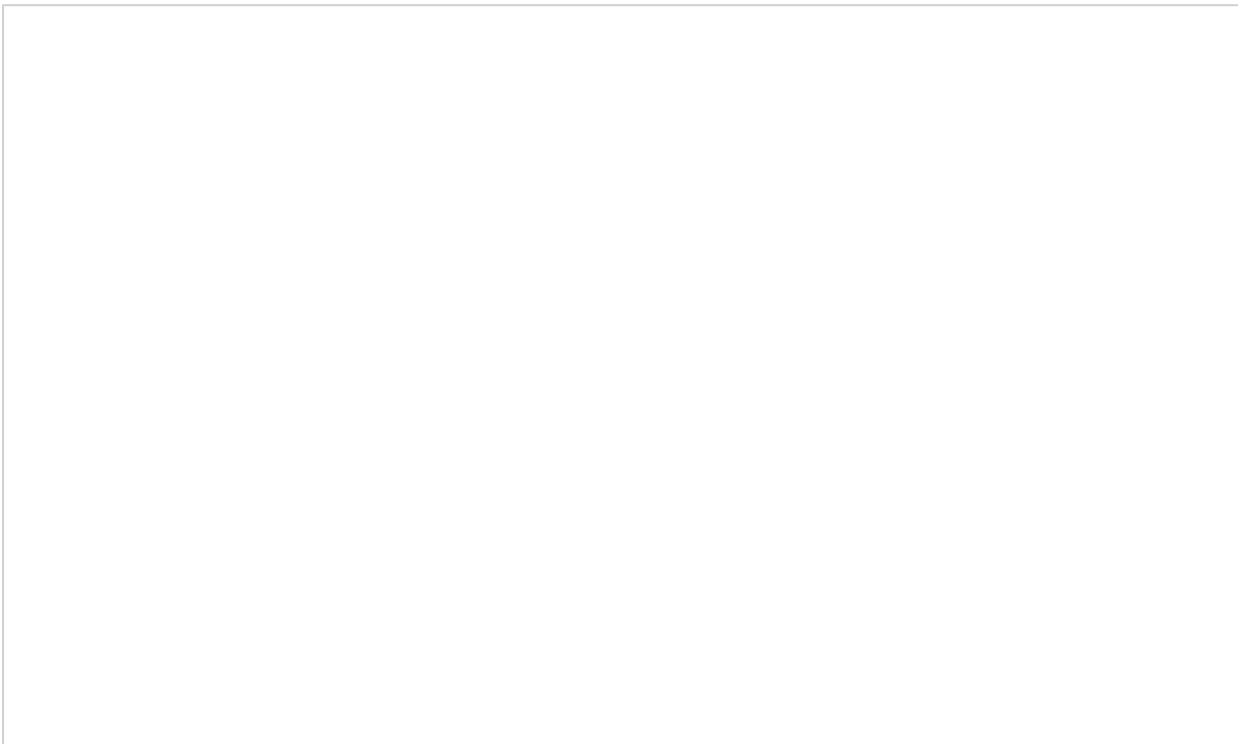
The **Metrics** tab allows you to define the shape of the panel, by entering values for its position and size.



Once you have configured the properties of your Label panel, click on the **Save** button to apply any changes.

Label panel - overview video

For a live demonstration of how to design and customise a label panel, watch the video below:




Leaderboard panel

Leaderboard panel


- [What is a leaderboard panel?](#)
- [Adding a leaderboard panel](#)
- [Customising a leaderboard panel](#)
- [Leaderboard panel - overview video](#)

What is a leaderboard panel?

The leaderboard panel allows you to display your live call logging data organised in columns placed next to each other, in order to provide a visual summary of any call information you wish to monitor. The content of each column is determined solely by your selection and the leaderboard can show any combination of column types. The fonts and background of the panel are also customisable.

 The information shown in the leaderboard is updated every time a call finishes and has been logged by the system.

The example below shows a leaderboard panel containing the following columns: the total number of calls, inbound, outbound, lost calls, duration of inbound, duration of outbound, total duration of calls and is ordered by total number of calls per user:





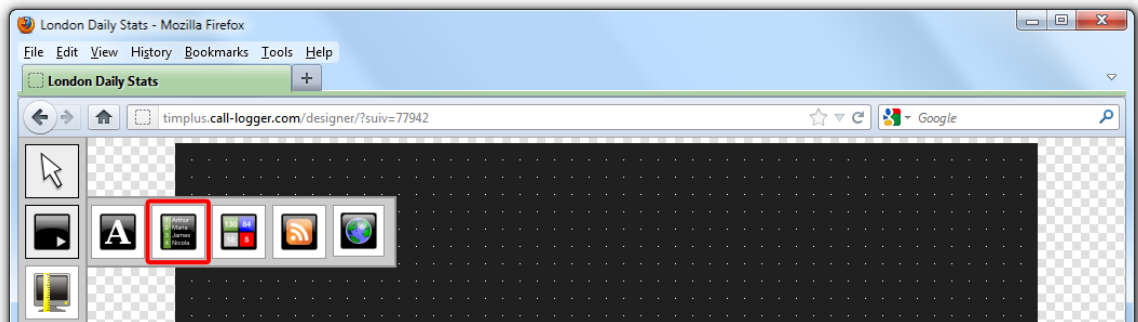
Paris Weekly IT Team

Pos	Name	Total ▼	In	Out	Lost	Duration (In)	Duration (Out)	Total Duration
1	Adam Zapel	111	2	104	0	00:01:52	00:33:33	00:38:32
2	Tom Morrow	66	60	2	0	01:49:52	00:00:19	01:50:35
3	Dan D. Lyons	59	5	48	0	00:02:45	00:16:51	00:26:08
4	Amanda Lynn	57	8	42	0	00:05:42	00:10:49	00:20:12
5	Bea Minor	52	36	13	0	00:18:36	00:06:18	00:27:24
6	Bill Loney	45	14	13	0	00:06:02	00:14:16	00:45:22
7	Lance Boyle	38	12	15	0	00:07:37	00:13:39	00:32:47
8	Al Fresco	37	11	13	0	00:05:48	00:13:26	00:36:32
9	Claire Annette	34	26	0	0	00:39:48	00:00:00	00:46:34
10	Aretha Holly	31	5	19	0	00:06:04	00:29:31	00:39:47

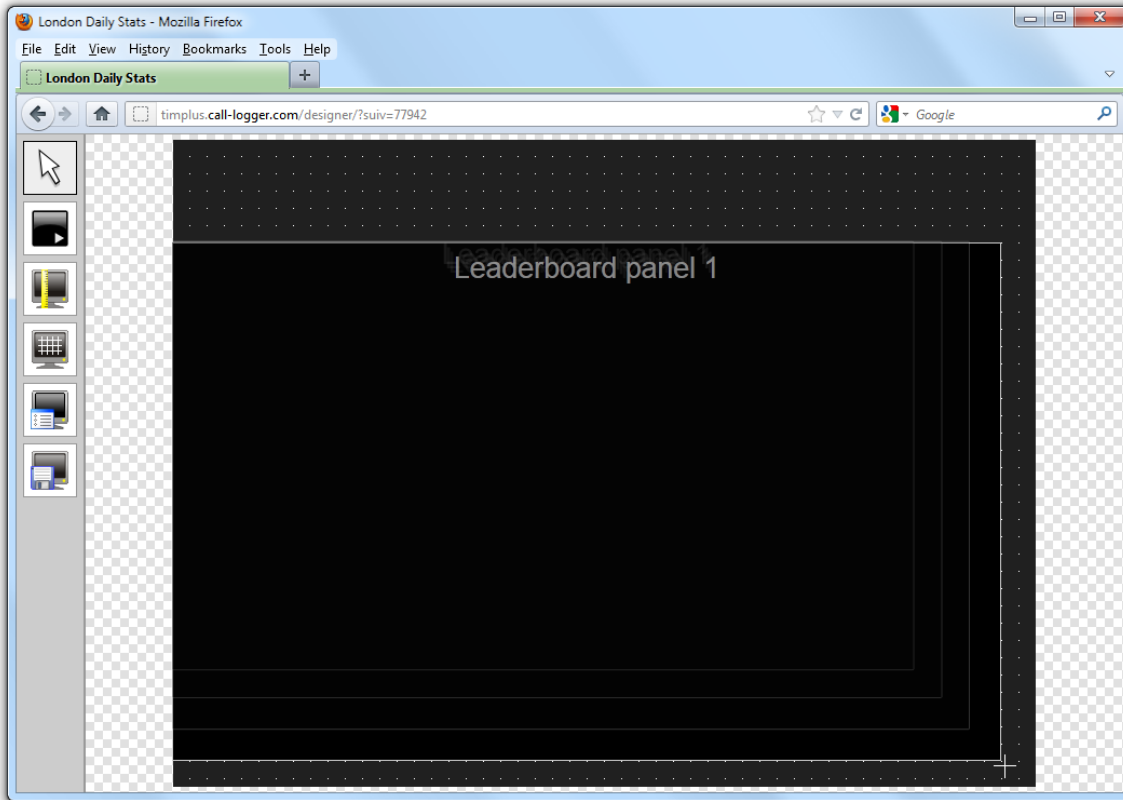
Adding a leaderboard panel



To add a leaderboard panel, click on the  toolbar button to expand the list of panel types and choose the  button, as shown below:





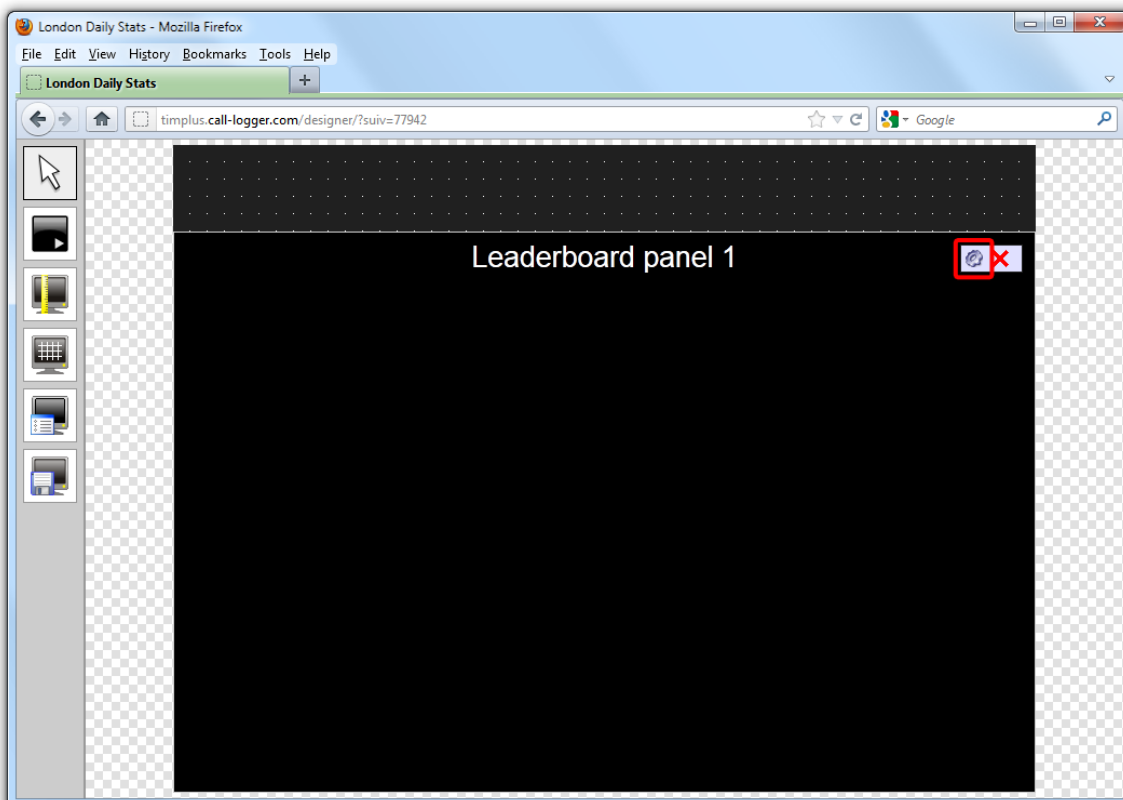
After selecting the leaderboard panel button, the mouse pointer changes into a white crosshair pointer, indicating that the designer is ready to draw your panel. Click and hold your left mouse button, starting at the point defining the upper-left corner of your new panel. Whilst still holding down the left mouse button, drag the marquee that will appear to the point that will define the lower-right corner of your panel, as shown below:



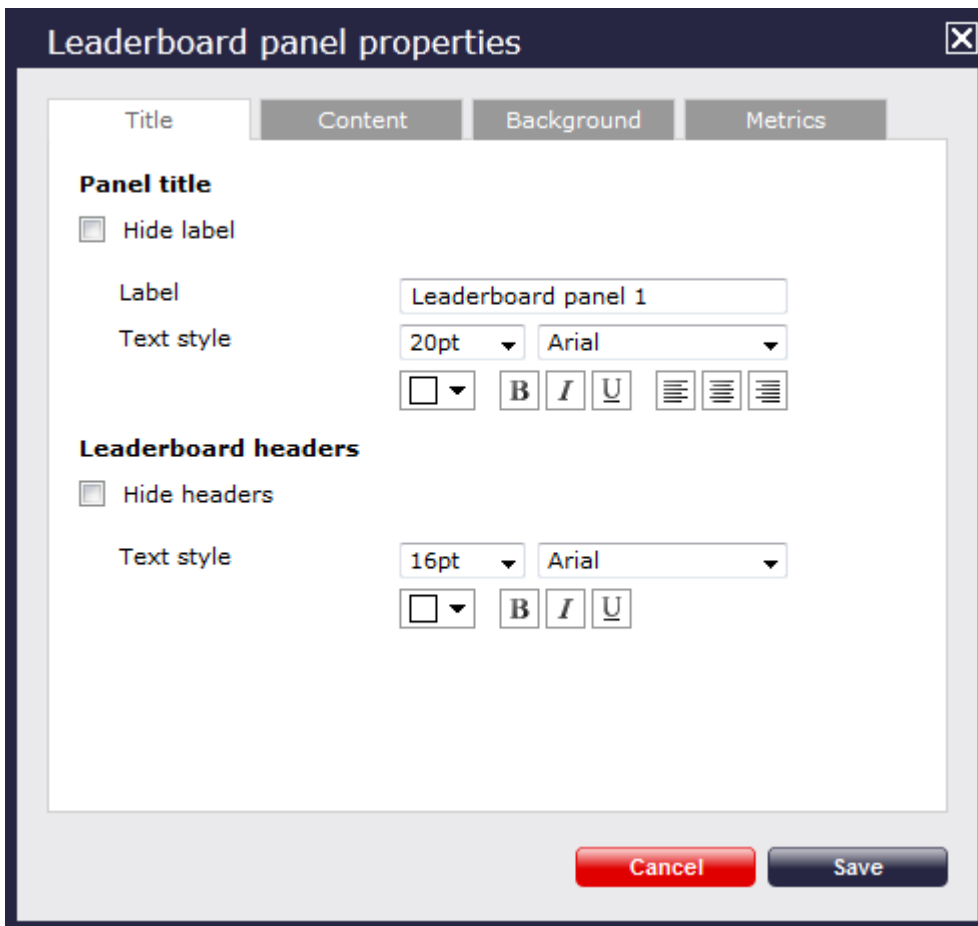
Customising a leaderboard panel



To customize a leaderboard panel, click on the  toolbar button to switch to panel selection mode. Hover your mouse pointer over the leaderboard panel you want to customise and click on the  icon, when it appears towards the top-right corner of the panel, as shown below:

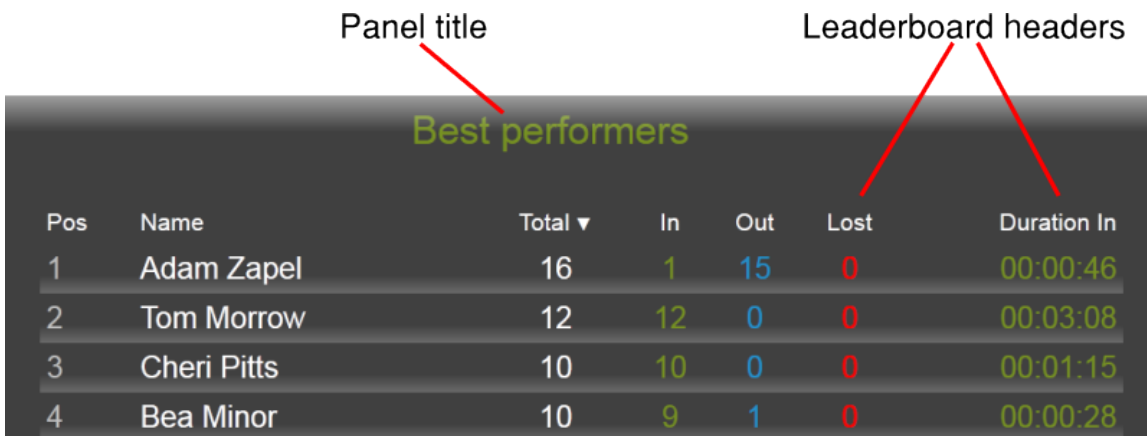


The `Leaderboard panel properties` window will open, containing the following tabs:

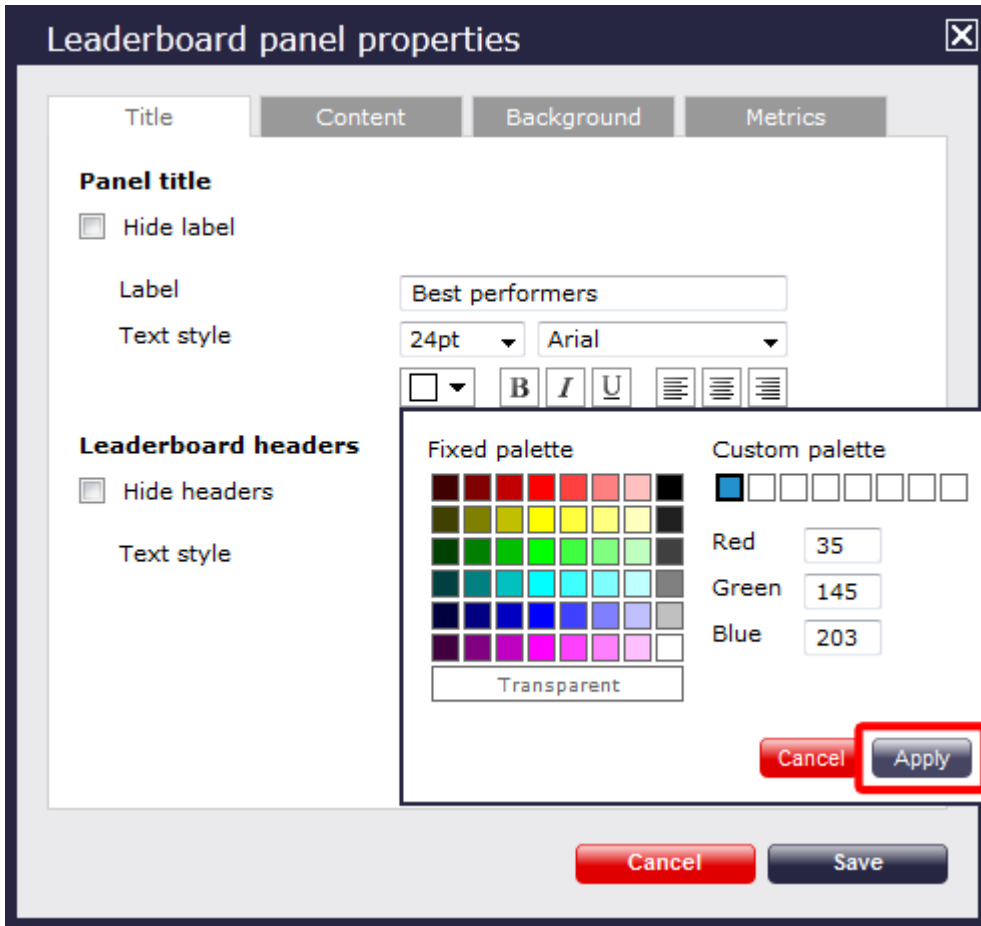


Title

The `Title` tab allows you to configure the properties of the panel title and of the leaderboard headers:

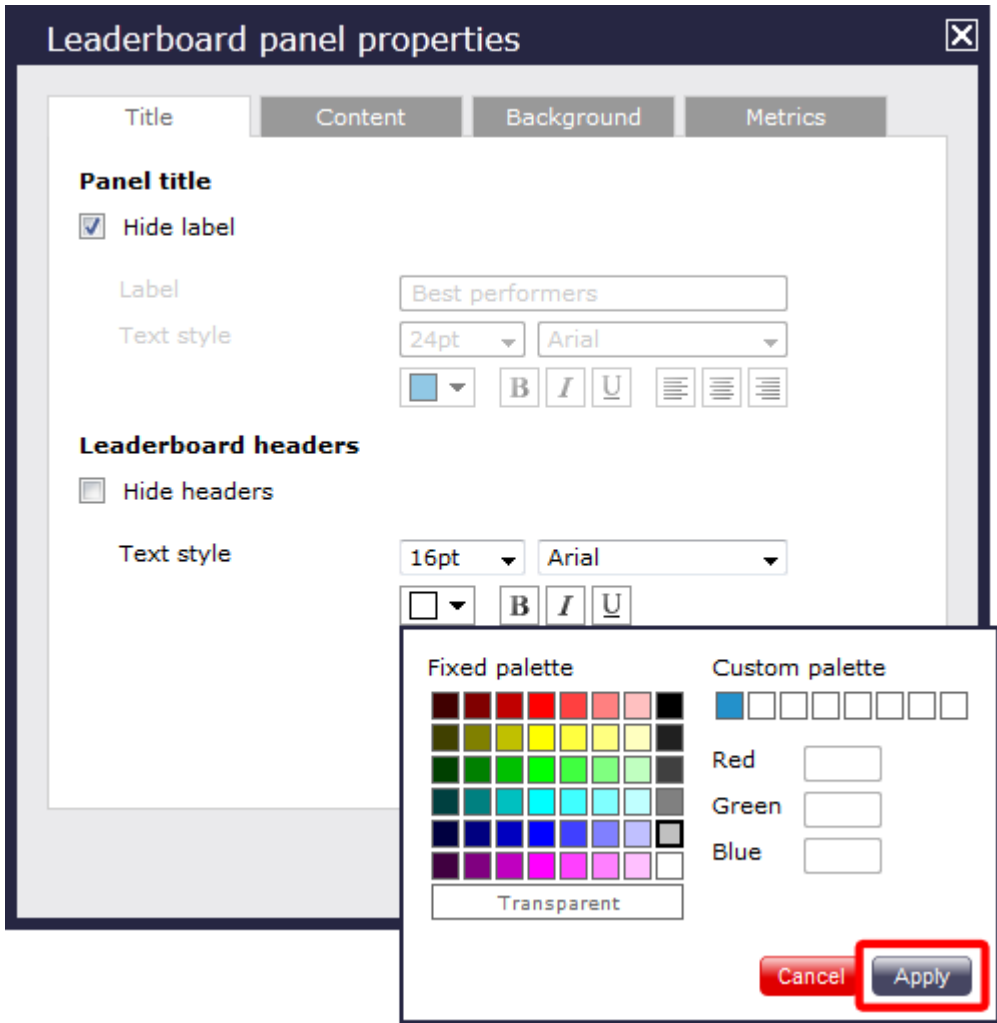


Panel title



Field	Description
Hide label	Tick this option if you don't want your panel to have a title
Label	Enter the name of your leaderboard
Text style	Select any styling properties for your panel title, e.g font size, font style or text colour etc.

Leaderboard headers



Field	Description
Hide label	Tick this option if you don't want to add any column headers
Text style	Select any <i>styling properties</i> for your column headers, e.g font size, font style or text colour etc.

Content

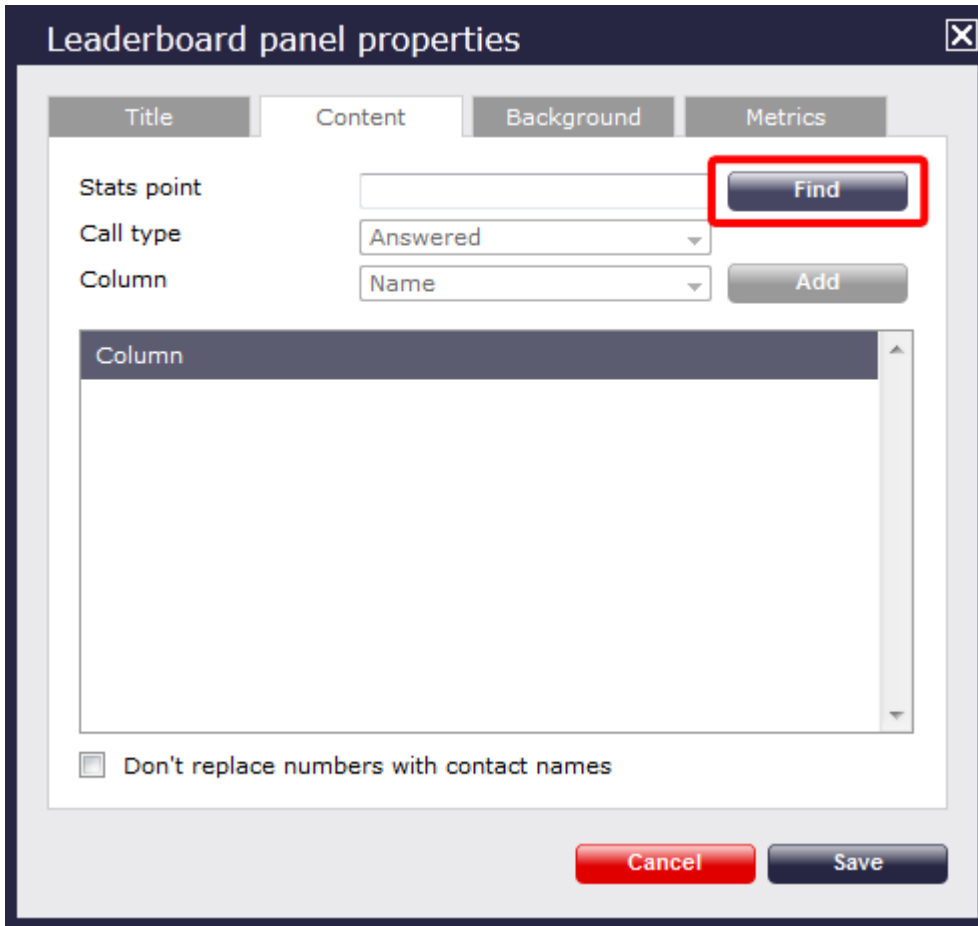
The **Content** tab allows you to select the type of information you want to display in your leaderboard. Each column can comprise different call information (duration, response time, etc.), for different call types (inbound, outbound, etc.) and for different entities (sites, groups, users). For example, one column can show statistics for the total number of inbound calls on a daily basis, while in a different column you can display the same information, but for a different user group and on a weekly basis.


Perform the following steps to add a column to your leaderboard panel:

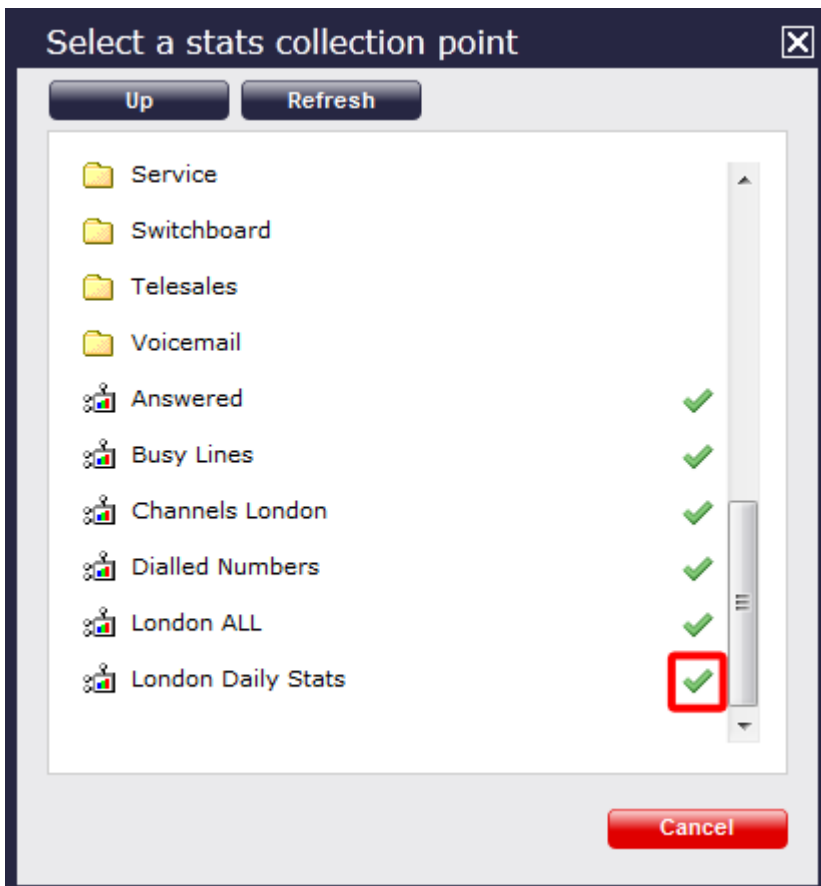
Select a stats point

i To populate a leaderboard with call logging information, you first need to add a stats point object in the Directory to collect data for the site, group or user you want the leaderboard to display.

To select the relevant stats point for your leaderboard, click on the **Find** button, as shown below:



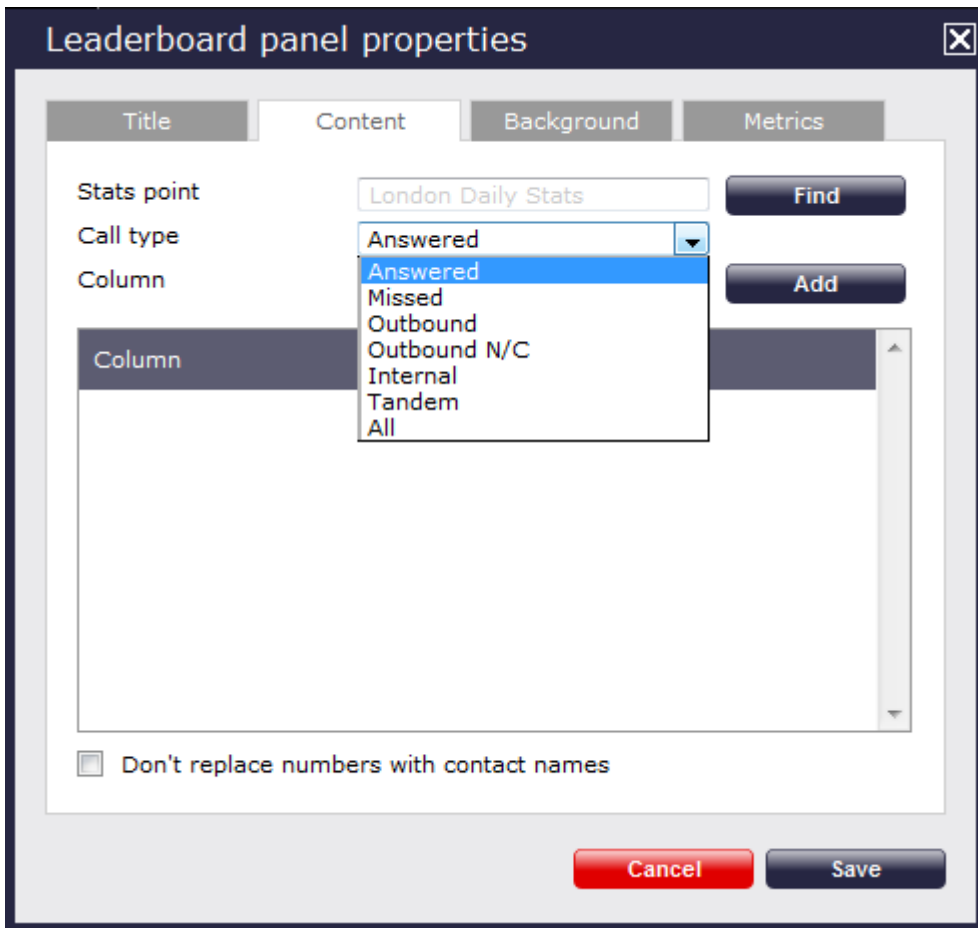
A new window will open, allowing you to drill-down to the site or group level in the Directory, where the stats point object you want to add resides. To select the stats point, click on the  icon alongside it.



i The selected stats point will automatically feed all columns in the leaderboard, but each individual column can be set afterwards to use a different stats point.

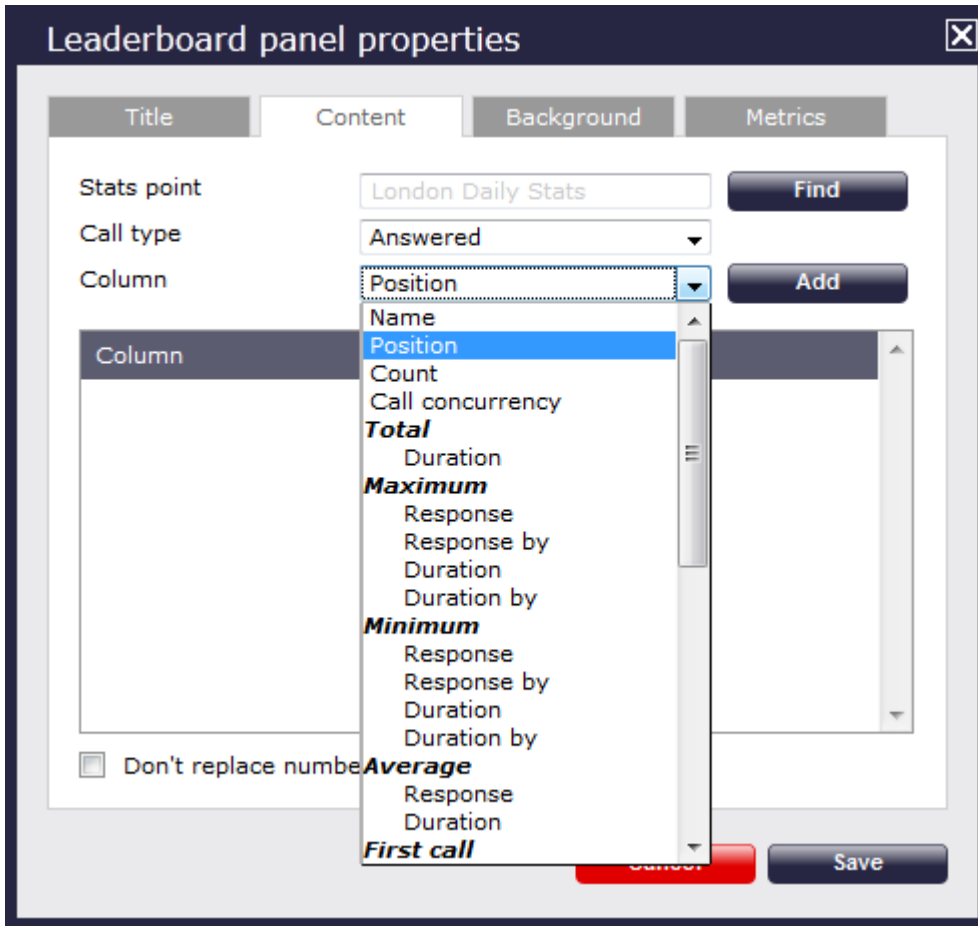
Select a call type

To select the type of call you want to display in this column, click on the **Call type** drop-down list and choose from the available options, as shown below:

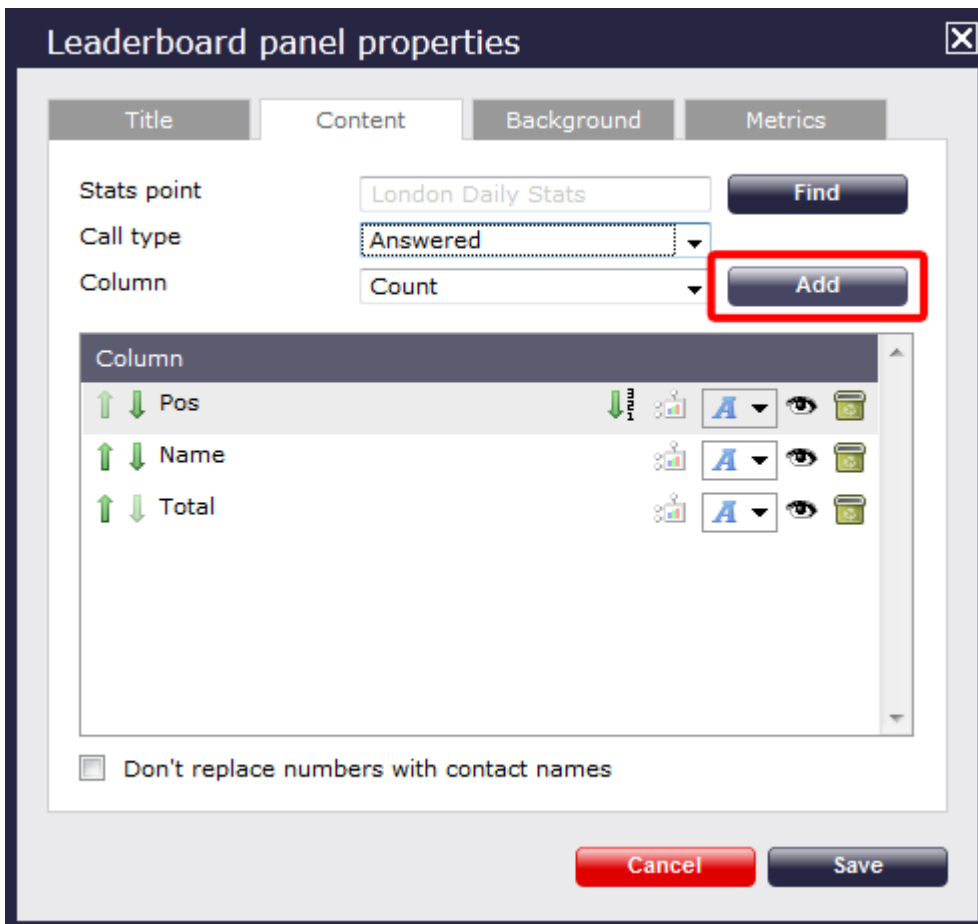


Select column information

To select the type of call information you want to display in this column, such as total duration, response time, etc., click on the **Column** drop-down list and choose from the available options, as shown below:

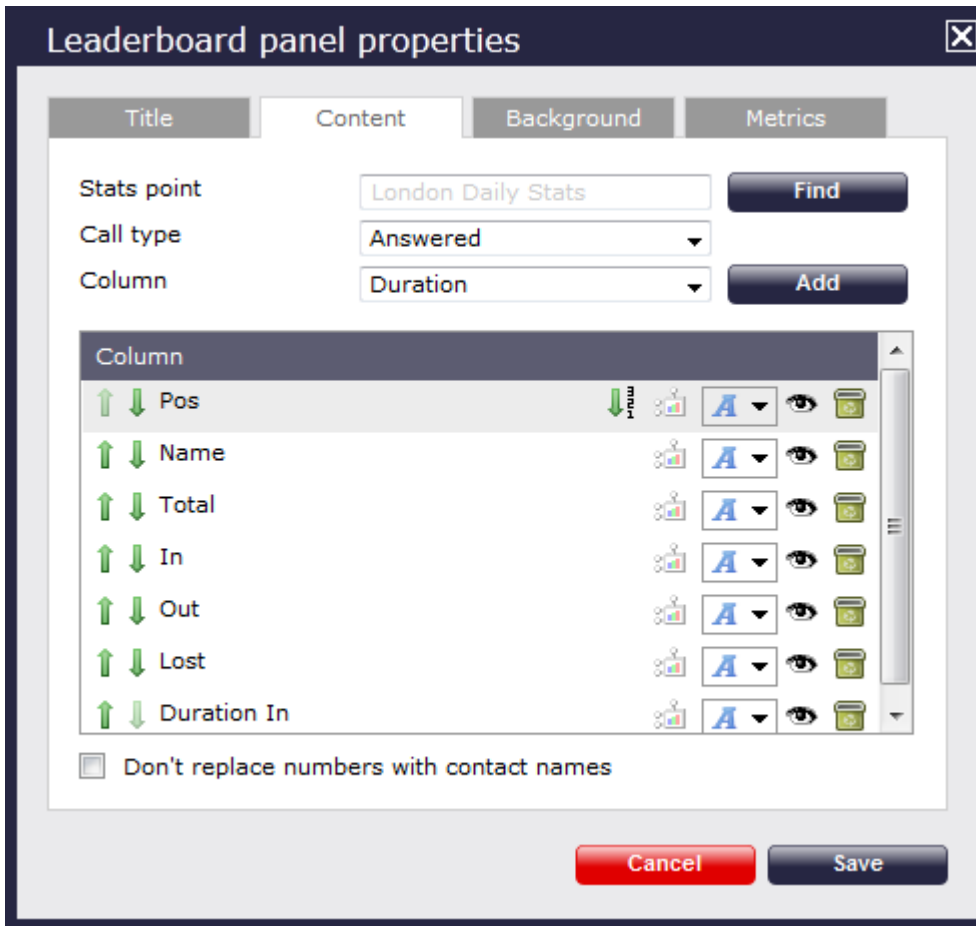


Click on the **Add** button to add the column to the list and repeat the process if you need to add another column.



In the example below, the following settings for the `Call type` and `Column` fields have been selected in order to form the columns that

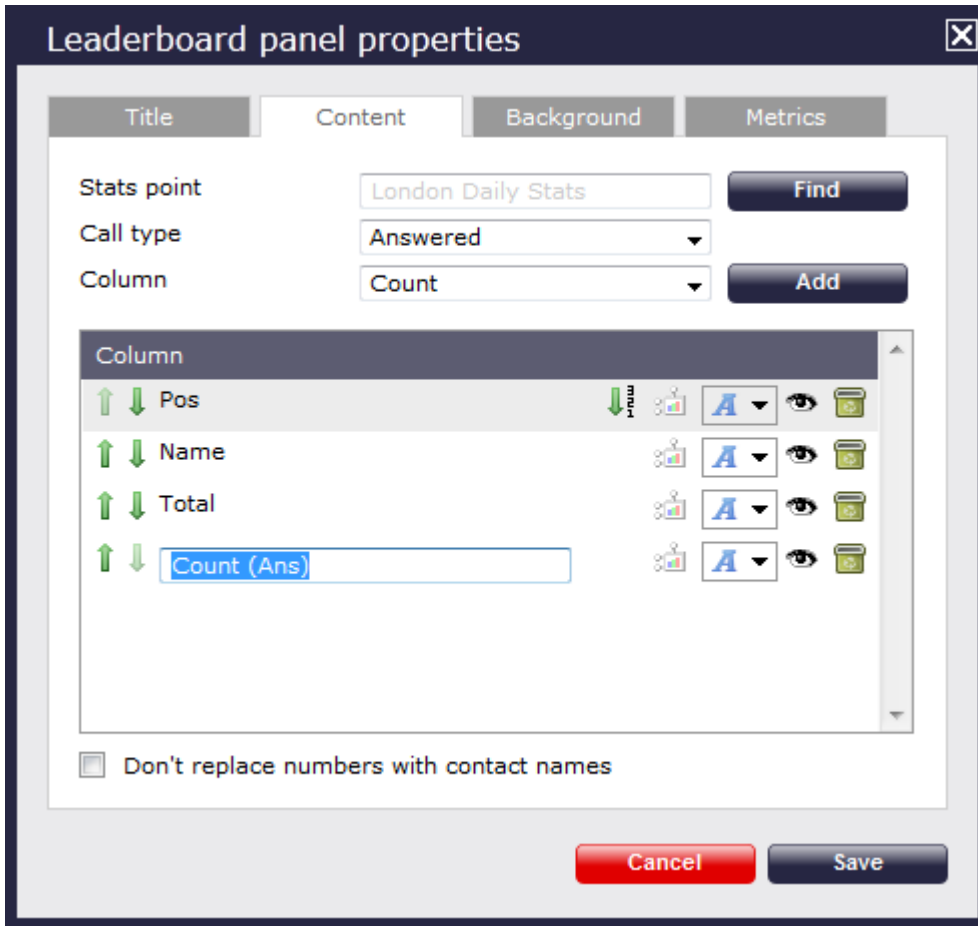
appear in the list:



Name	Call type	Column
Pos	All	Position
Name	All	Name
Total	All	Count
In	Answered	Count
Out	Outbound	Count
Lost	Missed	Count
Duration In	Answered	Average duration

Changing column name

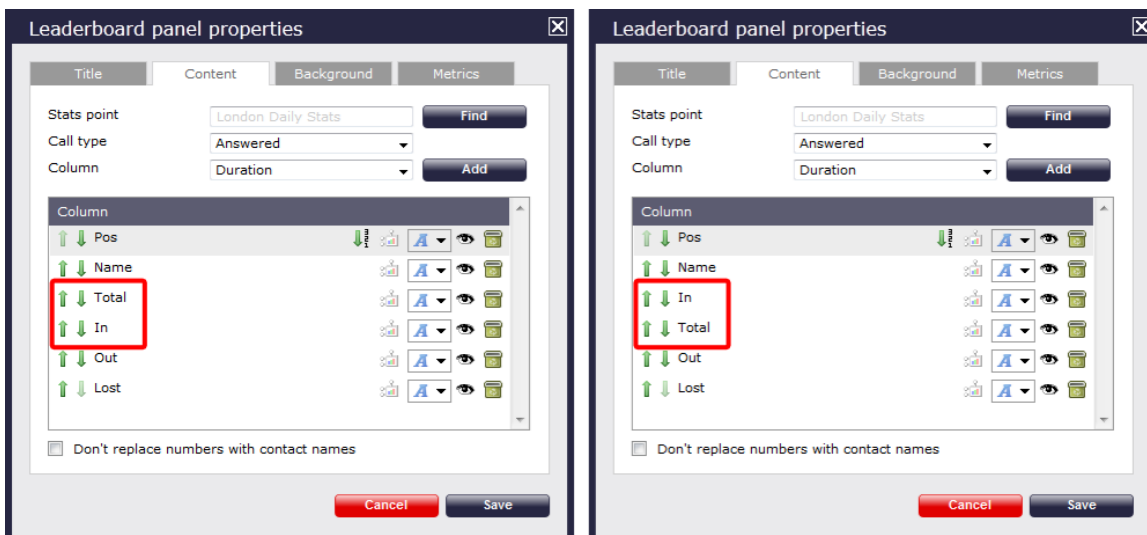
To change the name of a column, click on it to highlight the text and enter the new name. Press the **Enter** key to save the changes.



Rearranging columns

To rearrange the columns in a different order, click on the icon alongside each column. By clicking on the icon, the column will move one level up in the design mode, and one column to the left on the live display board.

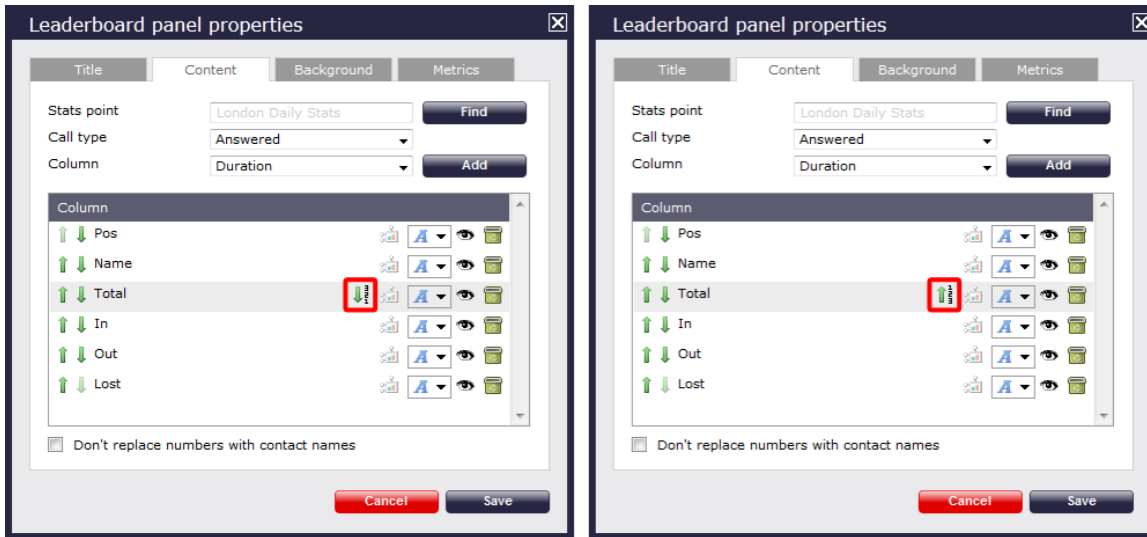
In the example below, we rearrange the **In** and **Total** columns. By clicking on the icon next to the **Total** column, we move it one level up.




Changing a column's sorting

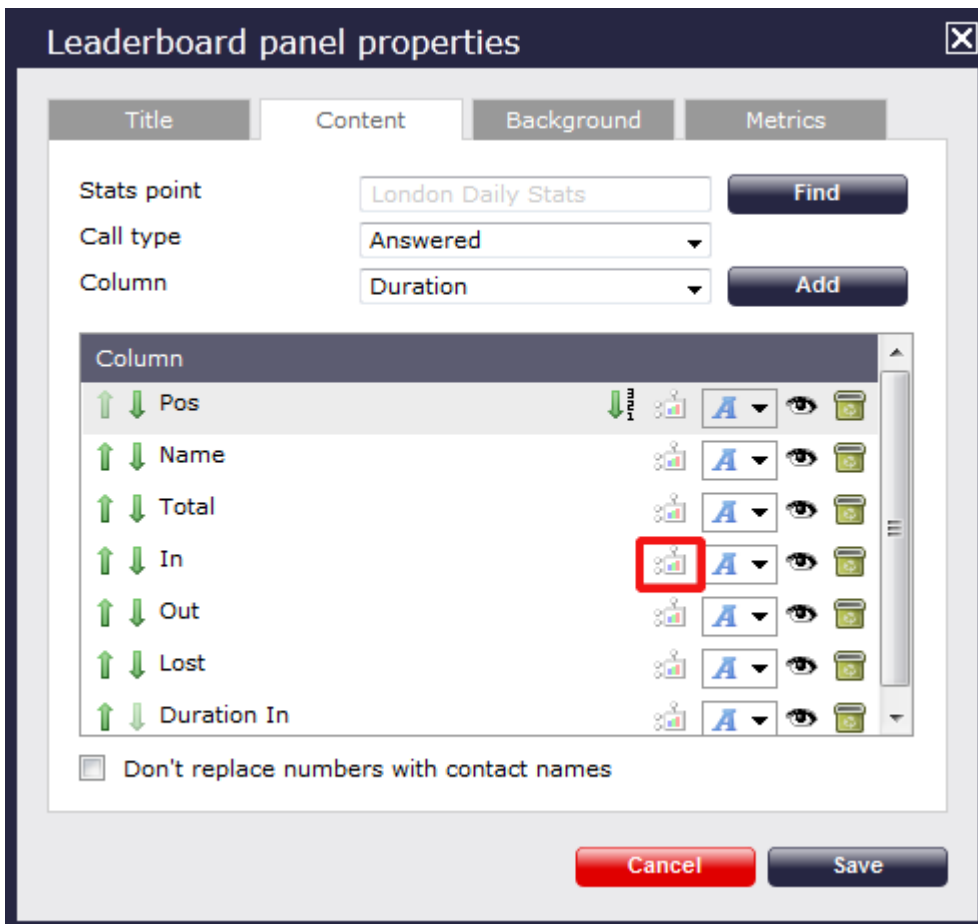
To sort the columns to appear in a specific order, click on the icon.


In the example below, we change the sorting of the **Total** column from descending to ascending. By clicking on the icon alongside the **Total** column, we turn the sorting of this column to descending.

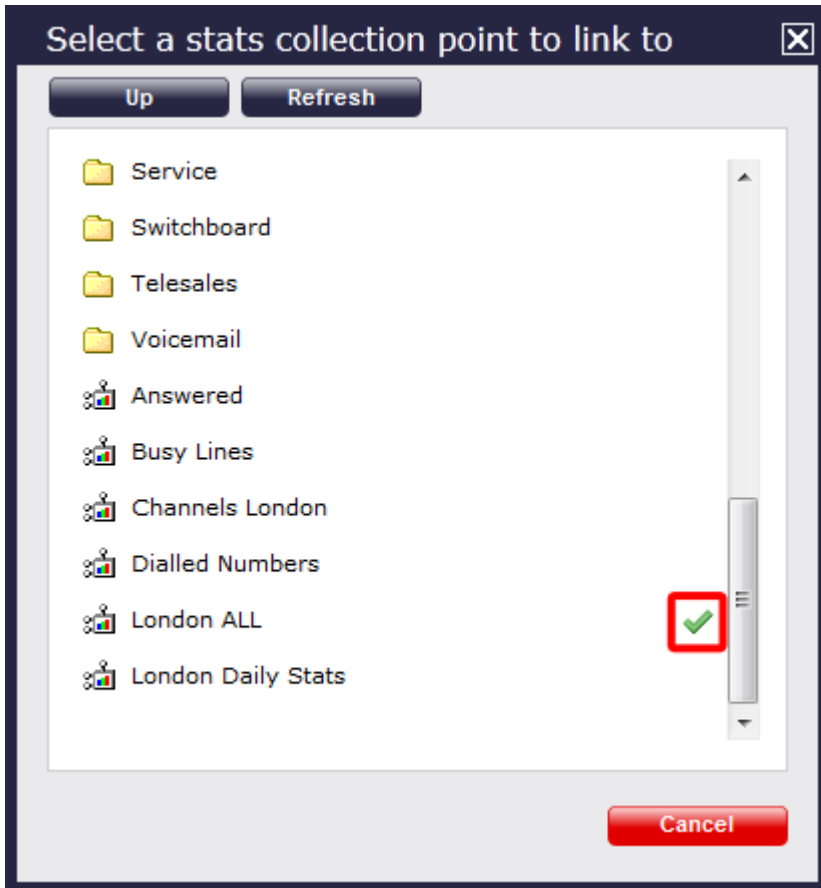




Changing the stats collection point

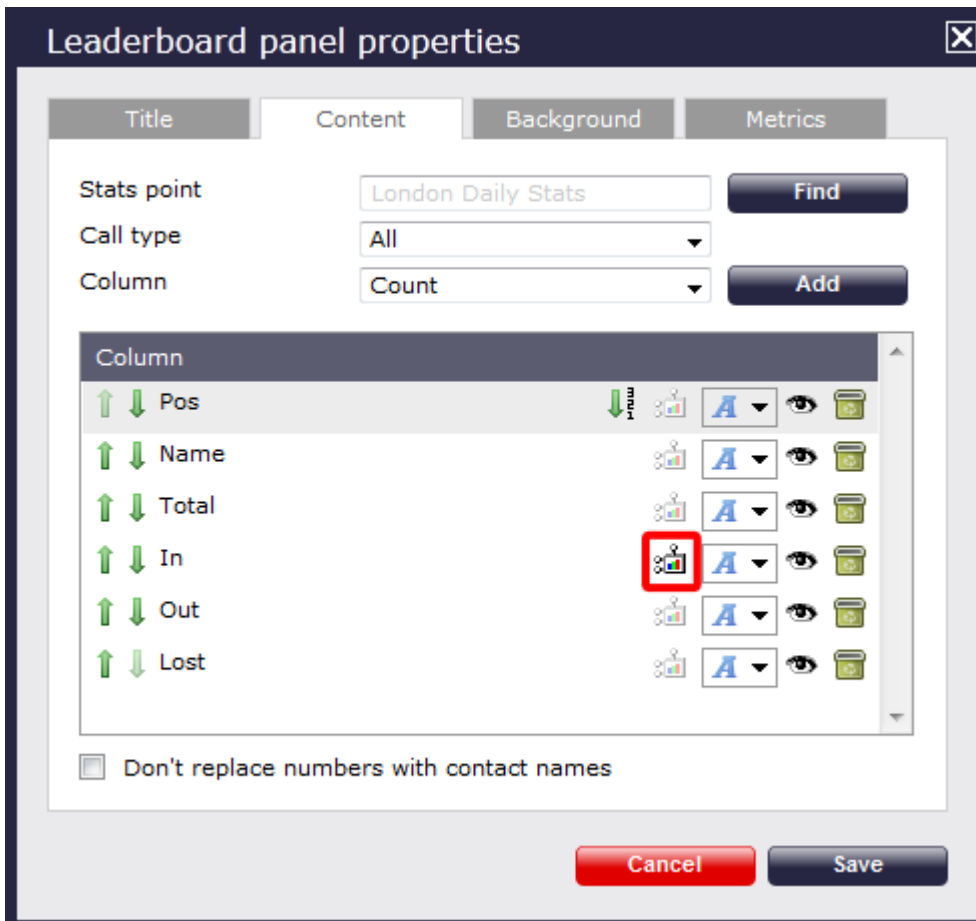
To change the stats collection point of a column, click on the  icon alongside it, as shown below:




A new window will open, allowing you to drill-down to the site or group level in the Directory, where the stats point object you want to add resides. To select the stats point, click on the  icon alongside it.

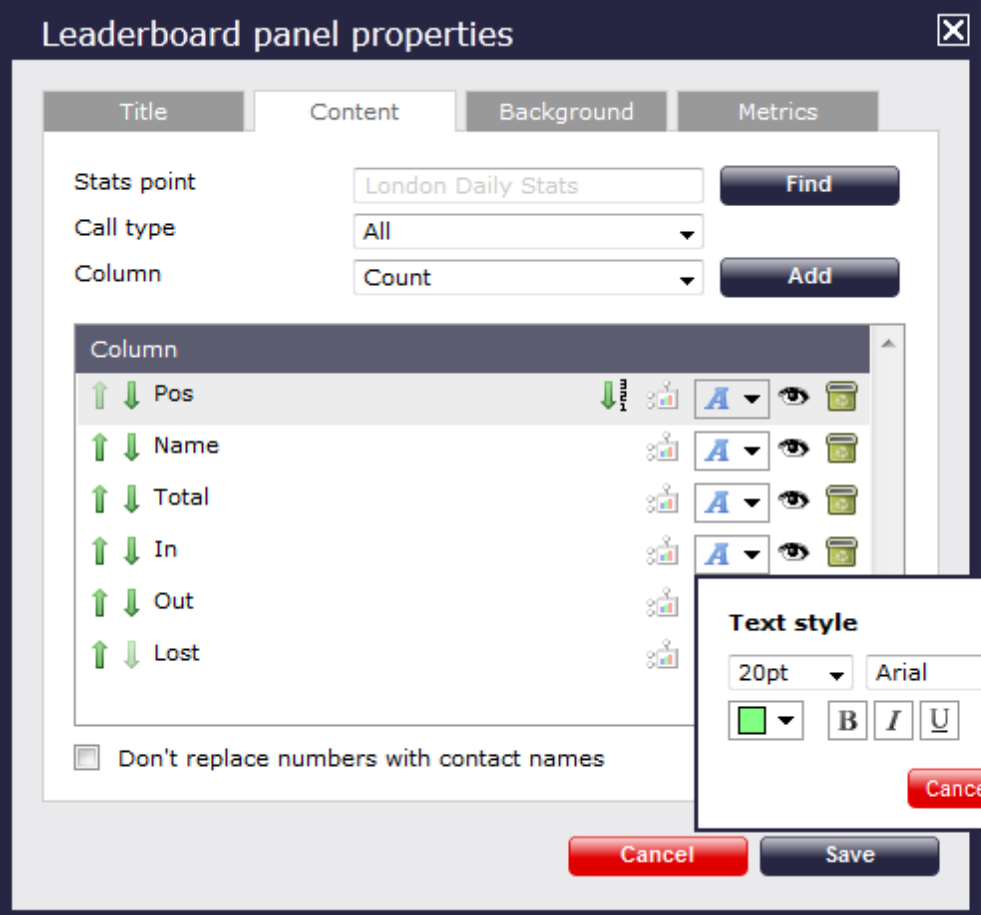


After selecting the new stats point, the  icon will automatically turn into , to highlight that the current column is using a different stats collection point.



Changing the font properties

Click on the  icon to change any styling properties for the selected column, e.g font size, font style or text colour etc.



Leaderboard panel properties

Title | Content | Background | Metrics

Stats point: London Daily Stats **Find**

Call type: All

Column: Count **Add**

Column list:

- Pos (font icon)
- Name (font icon)
- Total (font icon)
- In (font icon)
- Out (font icon)
- Lost (font icon)

Don't replace numbers with contact names

Text style



20pt | Arial

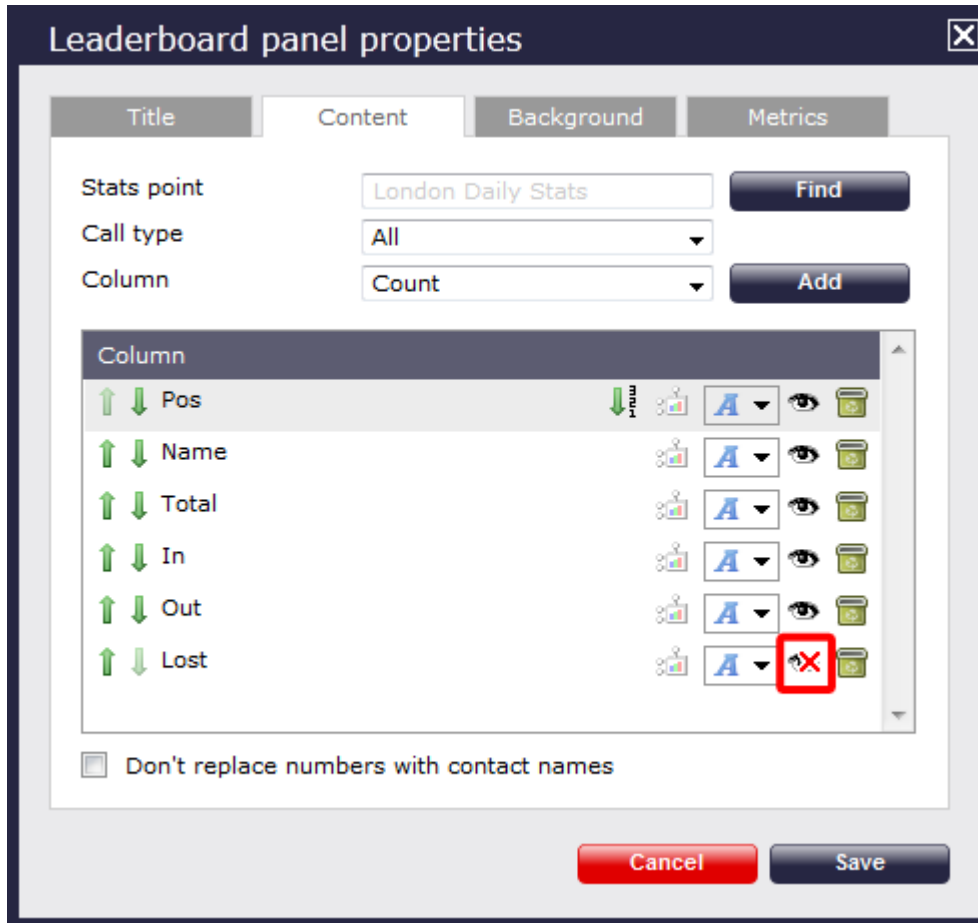
B *I* U [Alignment icons]



Cancel **Save**

Cancel **Save**


Hiding a column

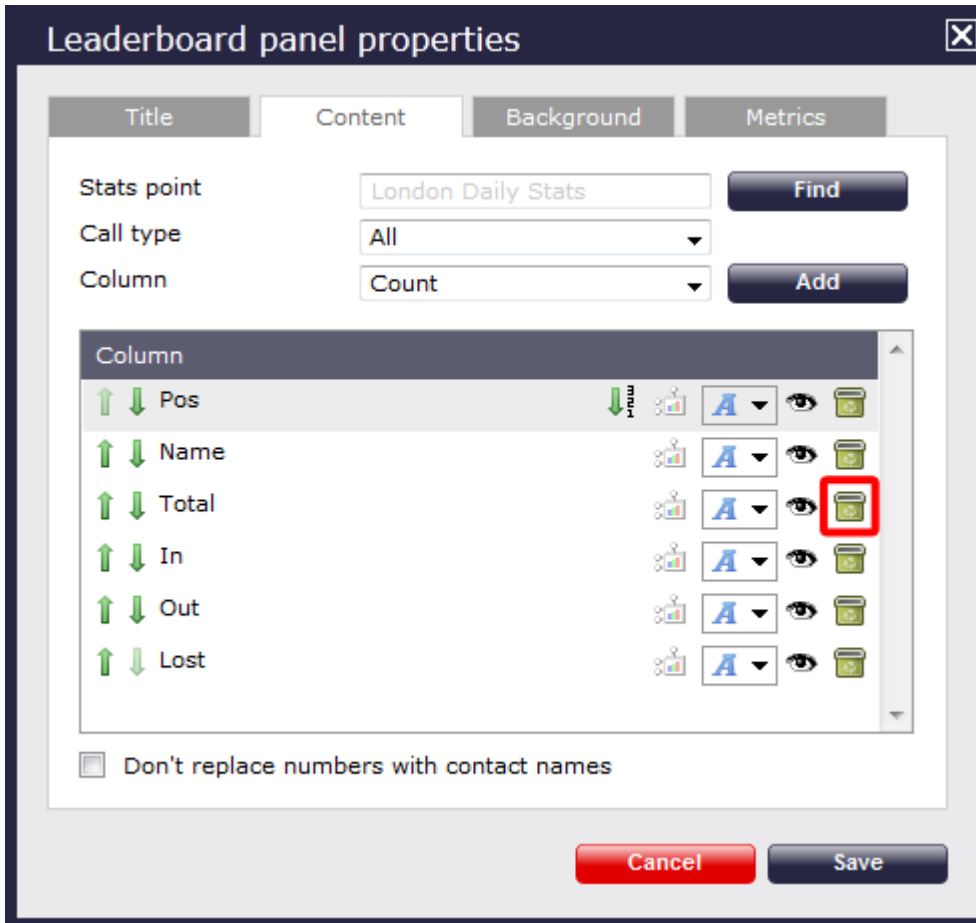
To temporarily hide a column from your leaderboard panel, click on the  icon, which will turn automatically into  highlighting the column is hidden.



To display the column again, click on the  icon, which will turn back into .

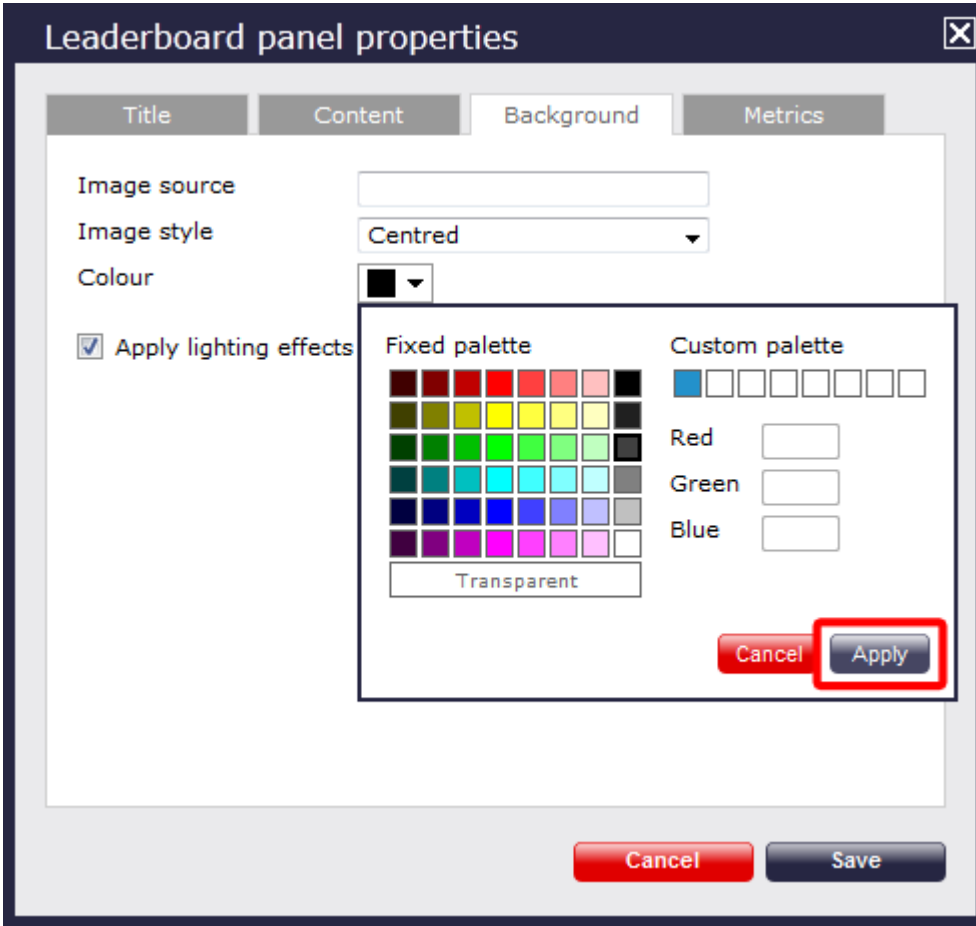
Deleting a column

If you would like to permanently delete a column from your leaderboard panel, click on the  icon, as shown below:



Background

The **Background** tab allows you to configure the background properties of your leaderboard panel.



Field	Description
Image source	If you want your panel to display an image, type its source here. Remember, the path is relative to the folder on disk from which the web content is served, and is different for each class of web user
Image style	Choose how the image should be displayed
Colour	Choose the background colour of the panel; if you are adding an image, you may want to select Transparent so that this does not interfere with your image
Apply lighting effects to this panel	Tick this option to apply a shine effect to the entire panel; if you are using the panel to display an image, this may adversely affect how it appears

Metrics

The **Metrics** tab allows you to define the size of the leaderboard panel and the parameters of the page.

Leaderboard panel properties

Metrics

Left: 0 px
Top: 159 px
Width: 940 px
Height: 650 px

Paging

Use automatic paging

Page size: 10

Show the first page only

Page speed: 3 seconds

Cancel Save

Panel size

To define the shape of the panel, enter the values for its position and size.

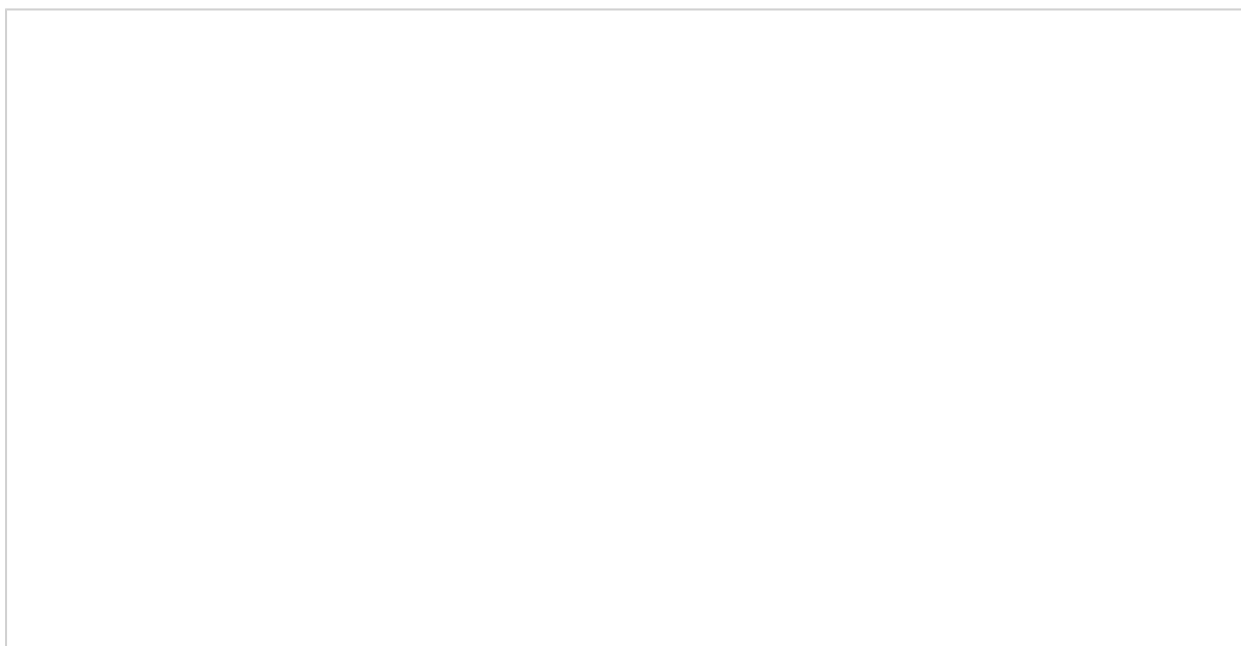
Paging

If you want to use automatic paging, select the box provided; alternatively, enter the number of rows you want the leaderboard to show per page, or select *show the first page only*. If the leaderboard has more than one page, you can set the rate at which you want the pages to change, by entering a value in the *Page speed* box.

Once you have configured the settings of your leaderboard panel, click on the **Save** button to apply any changes.

Leaderboard panel - overview video

For a live demonstration of how to design and customise a leaderboard panel, watch the video below:





Summary panel

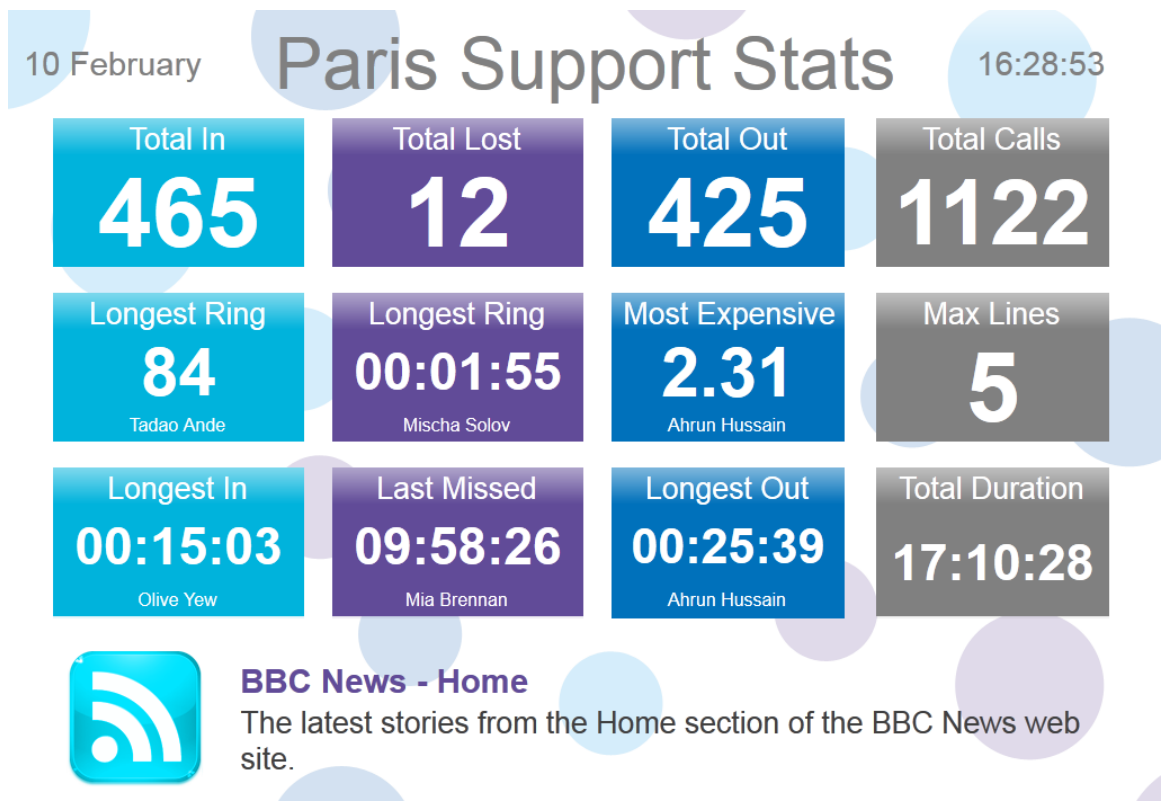
Summary panel

- What is a summary panel?
- Adding a summary panel
- Customising a summary panel
- Summary panel - overview video

What is a summary panel?



Summary panels are normally used to display call statistics based on a particular call type or call property, e.g. the longest call, the most expensive call, the total number of inbound calls etc.

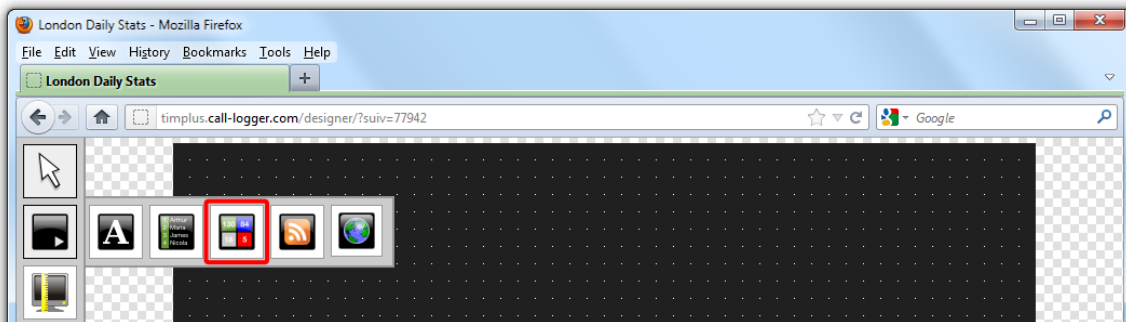
The display board in the screenshot below displays several summary panels, each of them showing call information grouped by different criteria



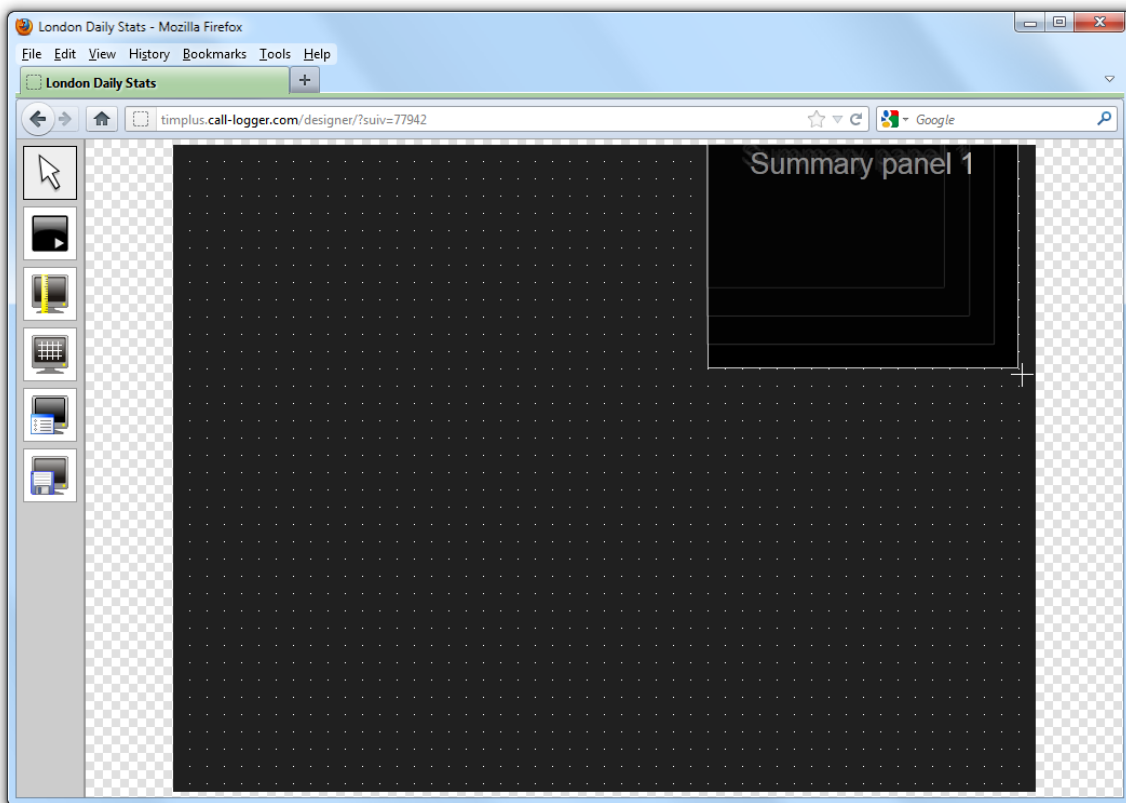
Adding a summary panel



To add a summary panel, click on the  toolbar button to expand the list of panel types and choose the  button, as shown below:





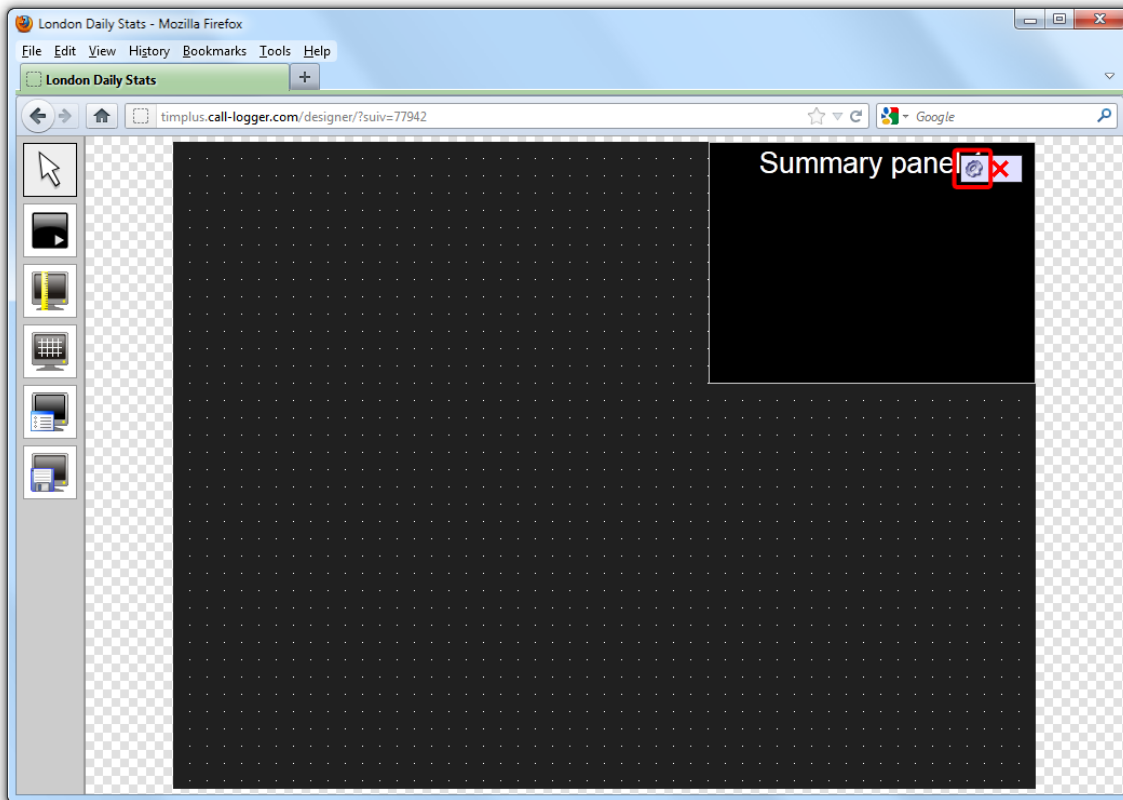
After selecting the summary panel button, the mouse pointer changes into a white crosshair pointer, indicating that the designer is ready to draw your panel. Click and hold your left mouse button, starting at the point defining the upper-left corner of your new panel. Whilst still holding down the left mouse button, drag the marquee that will appear to the point that will define the lower-right corner of your panel, as shown below:



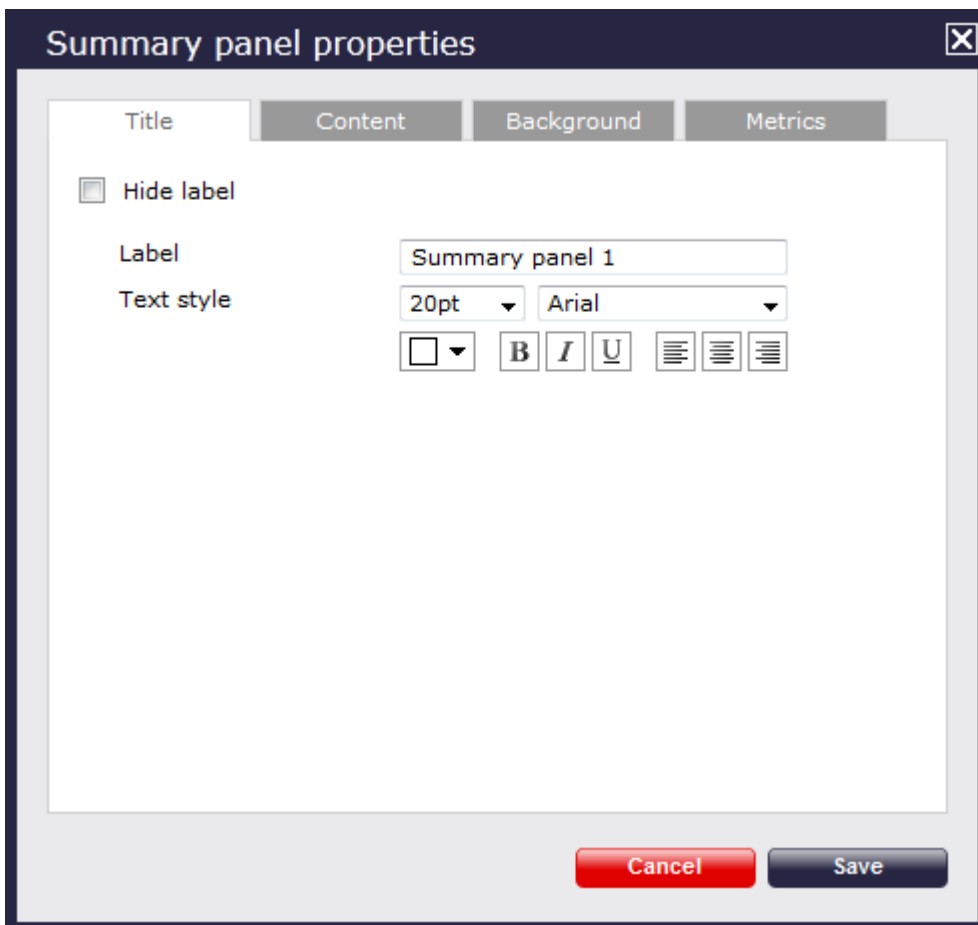
Customising a summary panel



To customize a summary panel, click on the  toolbar button to switch to panel selection mode. Hover your mouse pointer over the label panel you want to customise and click on the  icon, when it appears towards the top-right corner of the panel, as shown below:

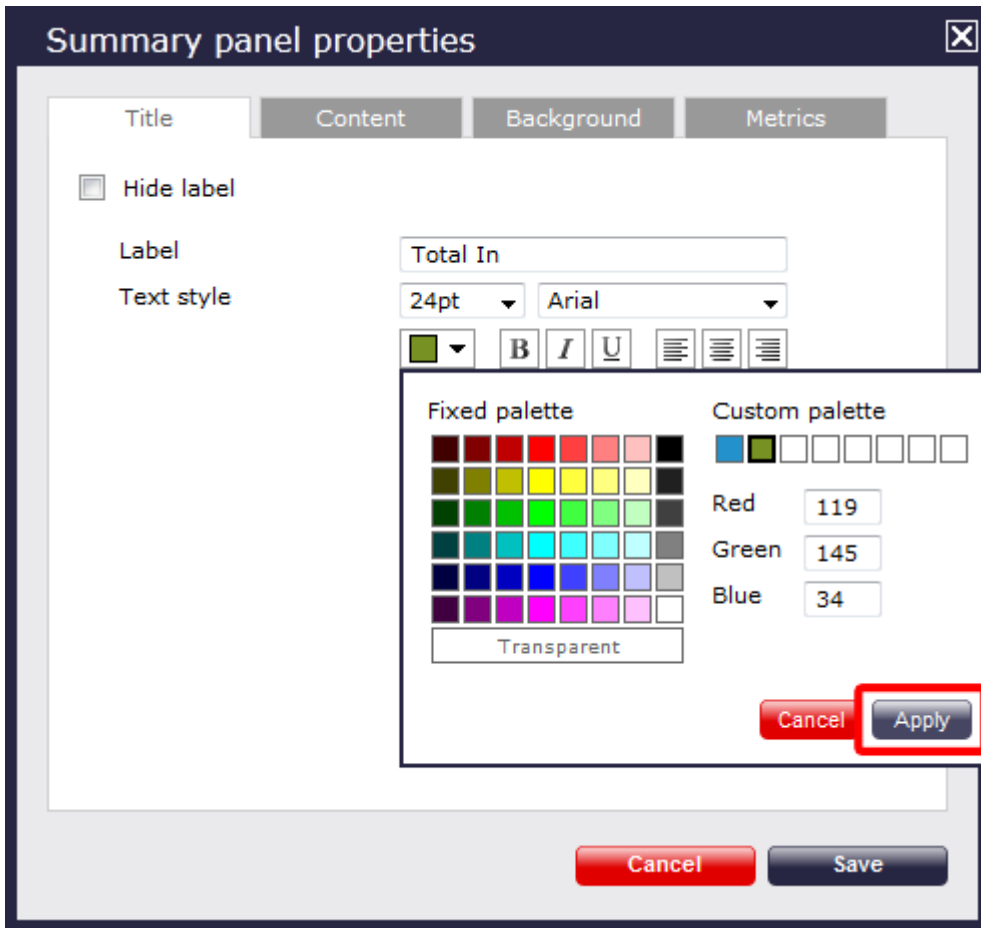


The `summary panel properties` window will open, containing the following tabs:



Title

The `Title` tab allows you to enter the name you want to appear on the summary panel and apply any styling properties, such as font size, font style, text colour, etc.



Field	Description
Hide label	Tick this option if you don't want your panel to have a title
Label	Enter a title for your summary panel
Text style	Select any styling properties for your panel title, e.g font size, font style or text colour etc.

Content

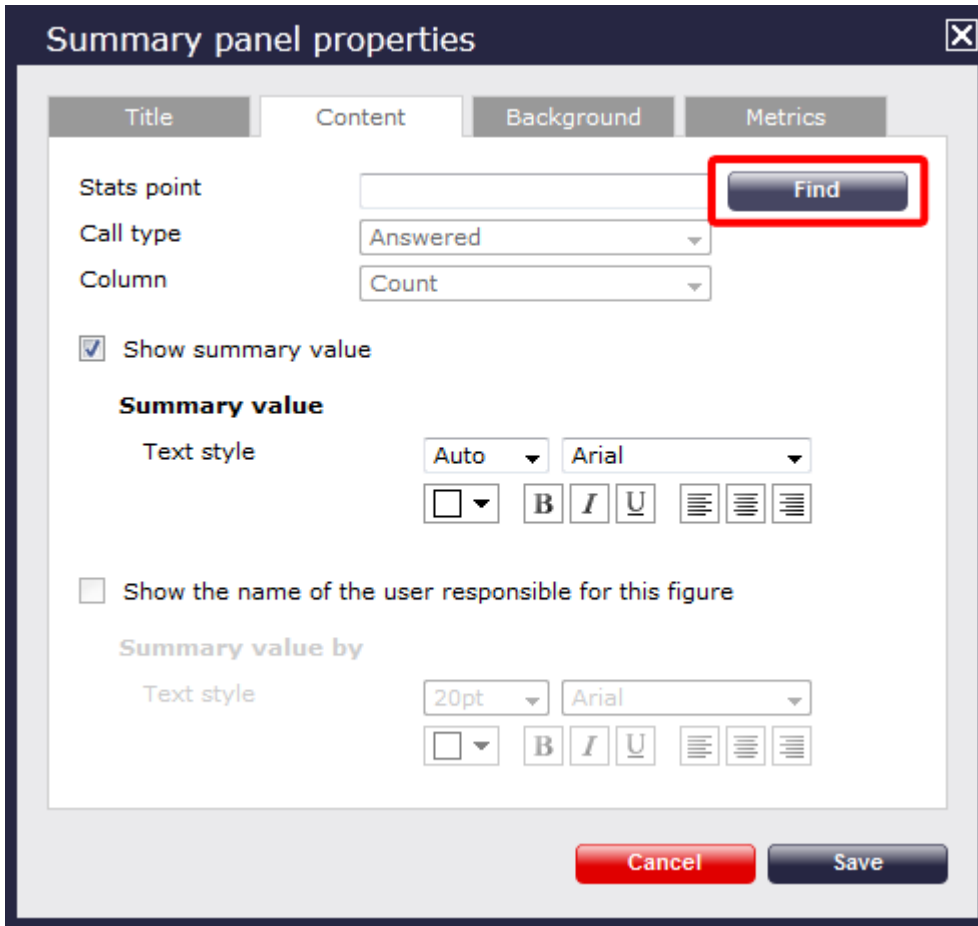
The tab allows you to select the type of call information you want to display in your summary panel.


Selecting a stats point

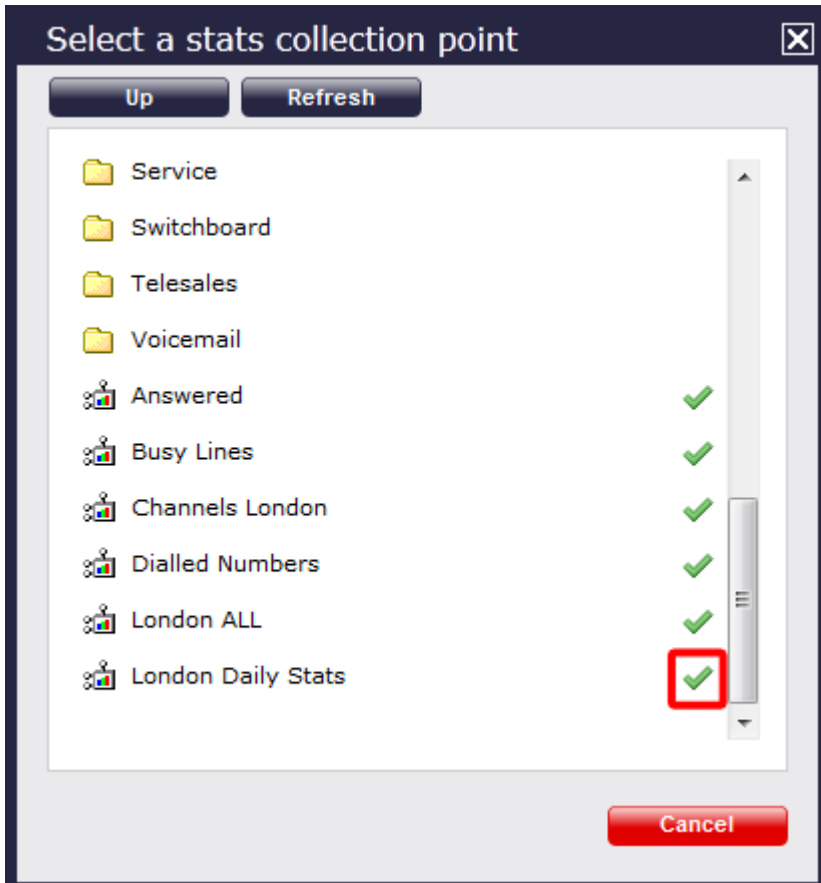


To populate the summary panel with call logging information, you first need to [create a stats point](#) object in the Directory to collect data for the site, group or user that you want the summary panel to display.

To choose the entity whose calls you want to display in this panel, select a stats collection point, by clicking on the button.



A new window will open, allowing you to drill-down to the site or group level in the Directory, where the stats point object you want to add resides. To select the stats point, click on the  icon alongside it.



This will now appear as your chosen stats point.

Selecting the call type

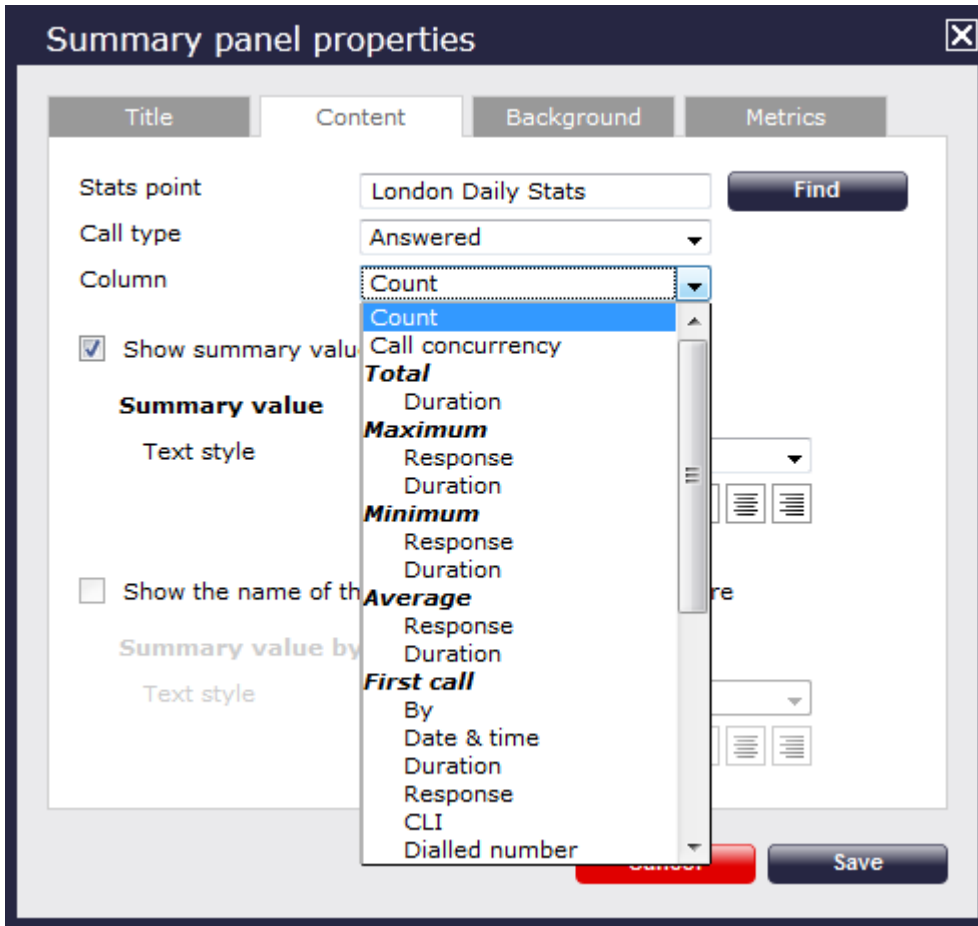
To select the call type you want to display in this column, click on the **Call type** drop-down list and choose from the available options, as shown below:

The screenshot shows the 'Summary panel properties' dialog box with the following settings:

- Title:** London Daily Stats
- Call type:** Answered
- Column:** Answered
- Show summary value
- Summary value:**
 - Text style: Auto, Arial
 - Buttons: Bold, Italic, Underline, Bulleted List, Numbered List, Indented List
- Show the name of the user responsible for this figure
- Summary value by:**
 - Text style: 20pt, Arial
 - Buttons: Bold, Italic, Underline, Bulleted List, Numbered List, Indented List

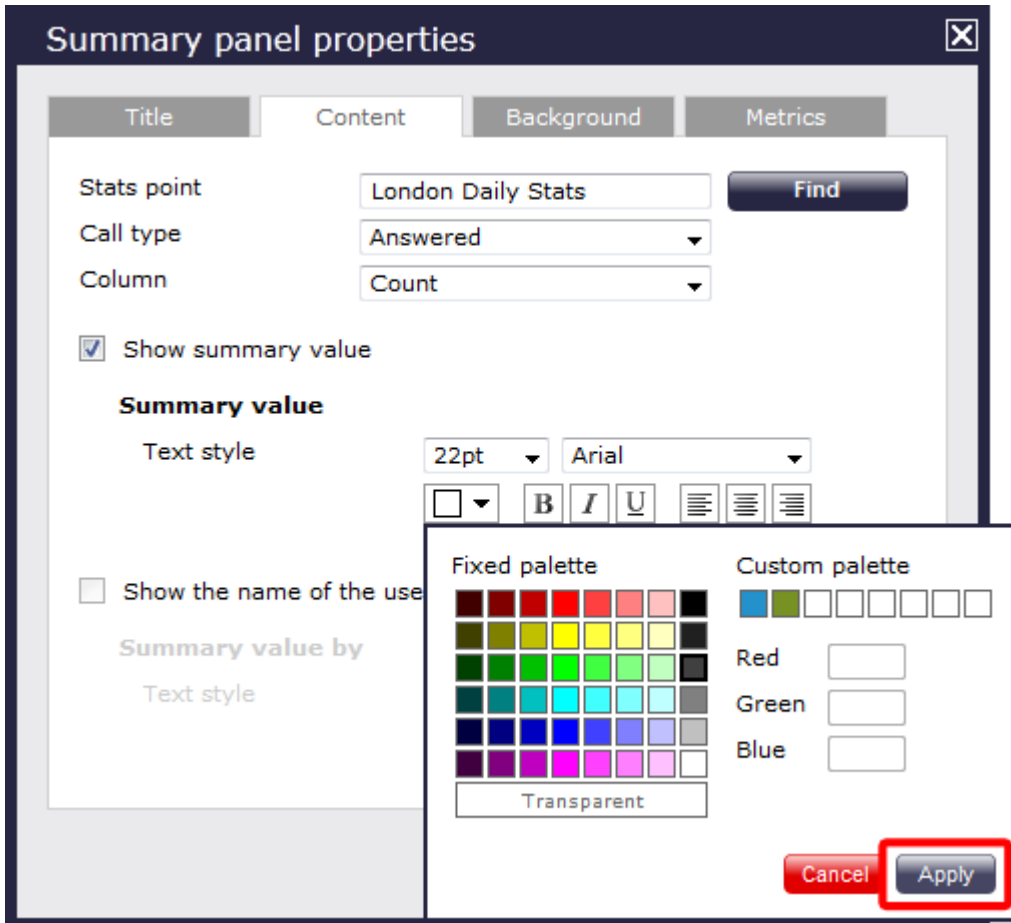
Selecting the information type

To select the type of call information you want to display in the summary panel, such as total duration, response time, etc., click on the **Column** drop-down list and choose from the available options, as shown below:



Show summary values

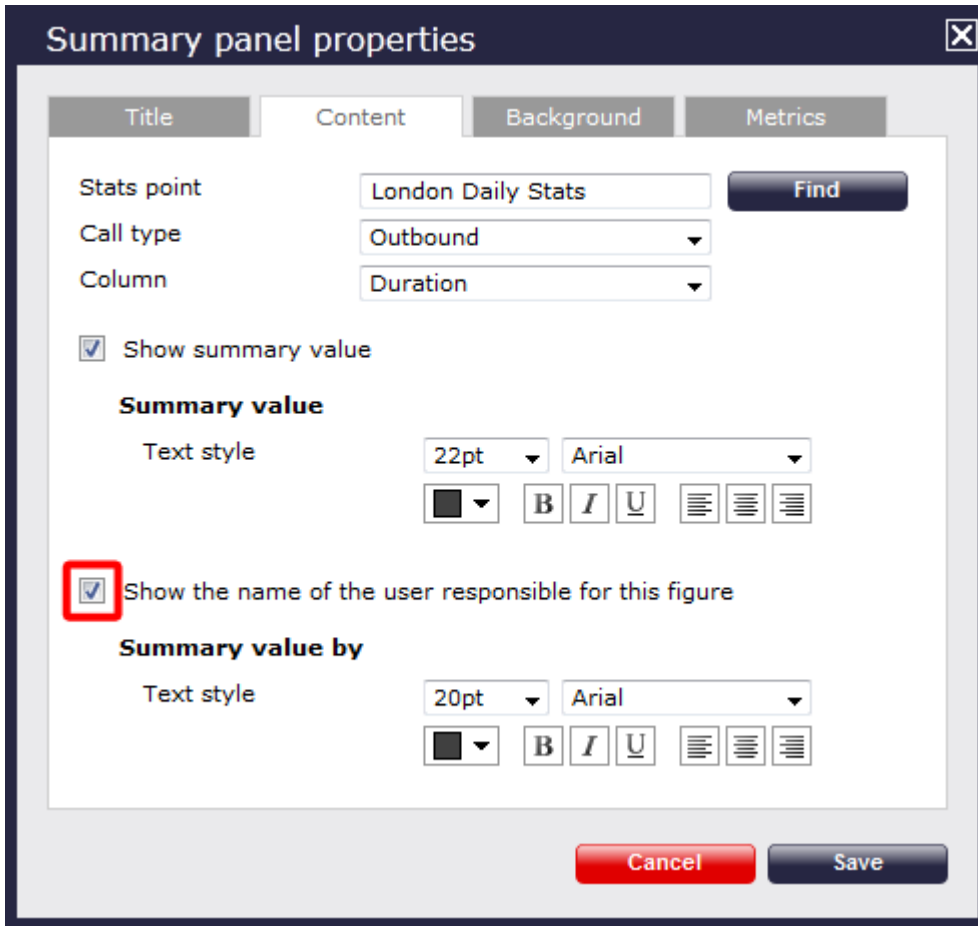
To see only the summary values for the information displayed in this panel, without the textual element, tick the available option and apply any [styling properties](#), if preferred.



Show the name of the user

To see the name of the user whose call information is displayed in this panel, tick the available option and apply any styling properties, if preferred.

In the example below, we have selected to show the longest outbound call, so in the `Call type` field we have selected `Outbound`, and in the `Column` field we have selected `Maximum Duration`. Ticking the box to display the name of the user that meets the criteria above, the summary panel will display the outbound call with the max duration and the name of the person who achieved this.

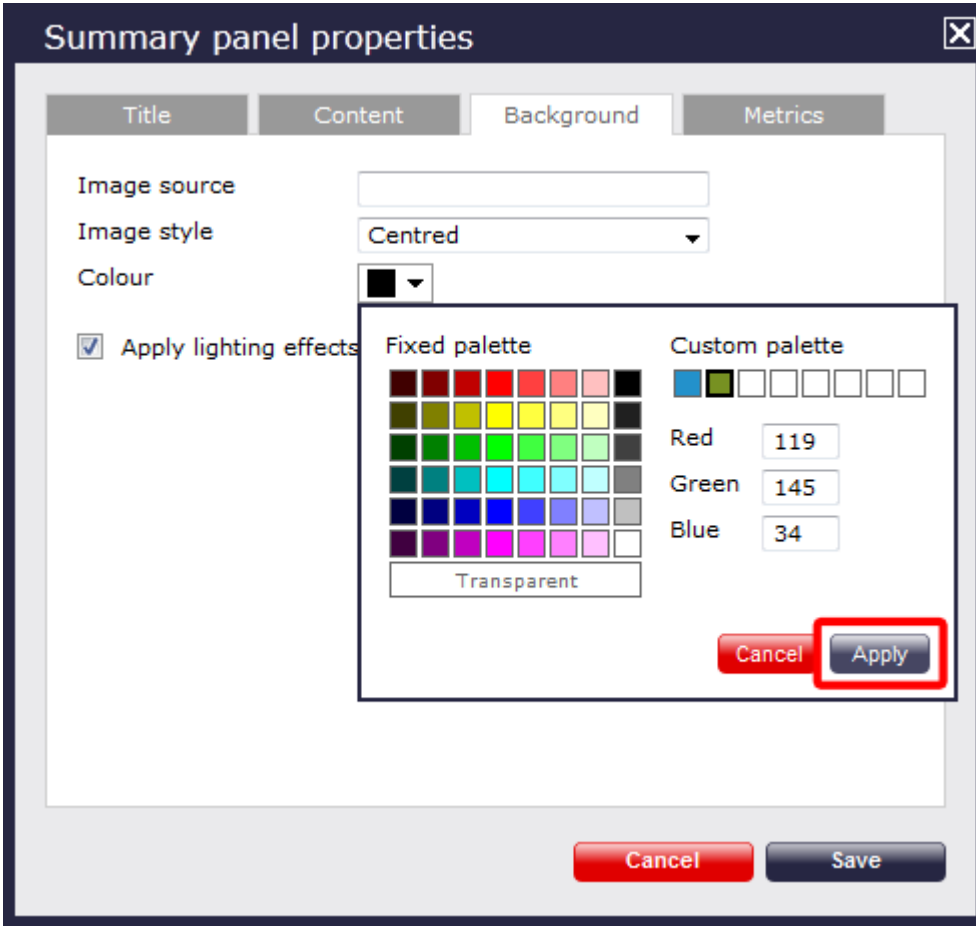


The summary panel of this last example will display as shown below:



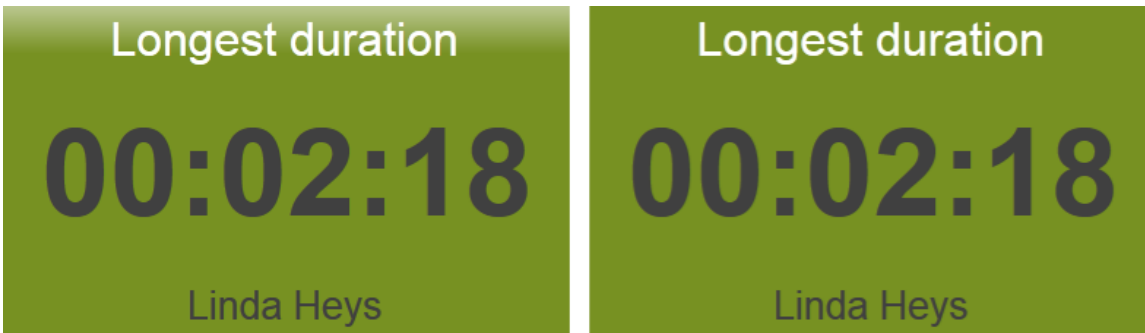
Background

The **Background** tab allows you to configure the background properties of your summary panel.



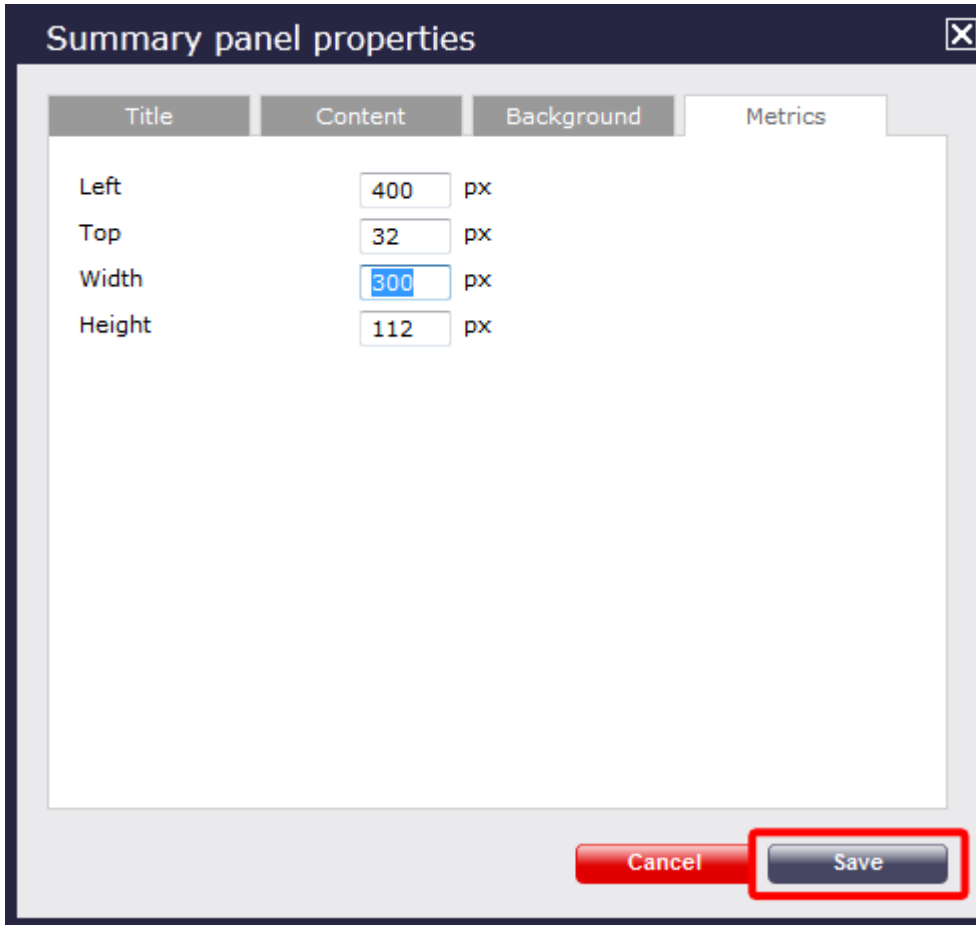
Field	Description
Image source	If you want your panel to display an image, type its source here. Remember, the path is relative to the folder on disk from which the web content is served, and is different for each class of web user
Image style	Choose how the image should be displayed
Colour	Choose the background colour of the panel; if you are adding an image, you may want to select Transparent so that this does not interfere with your image
Apply lighting effects to this panel	Tick this option to apply a shine effect to the entire panel; if you are using the panel to display an image, this may adversely affect how it appears

The two examples below show the difference between panels with and without lighting effects.



Metrics

The **Metrics** tab allows you to define the shape of the panel, by entering values for its position and size.



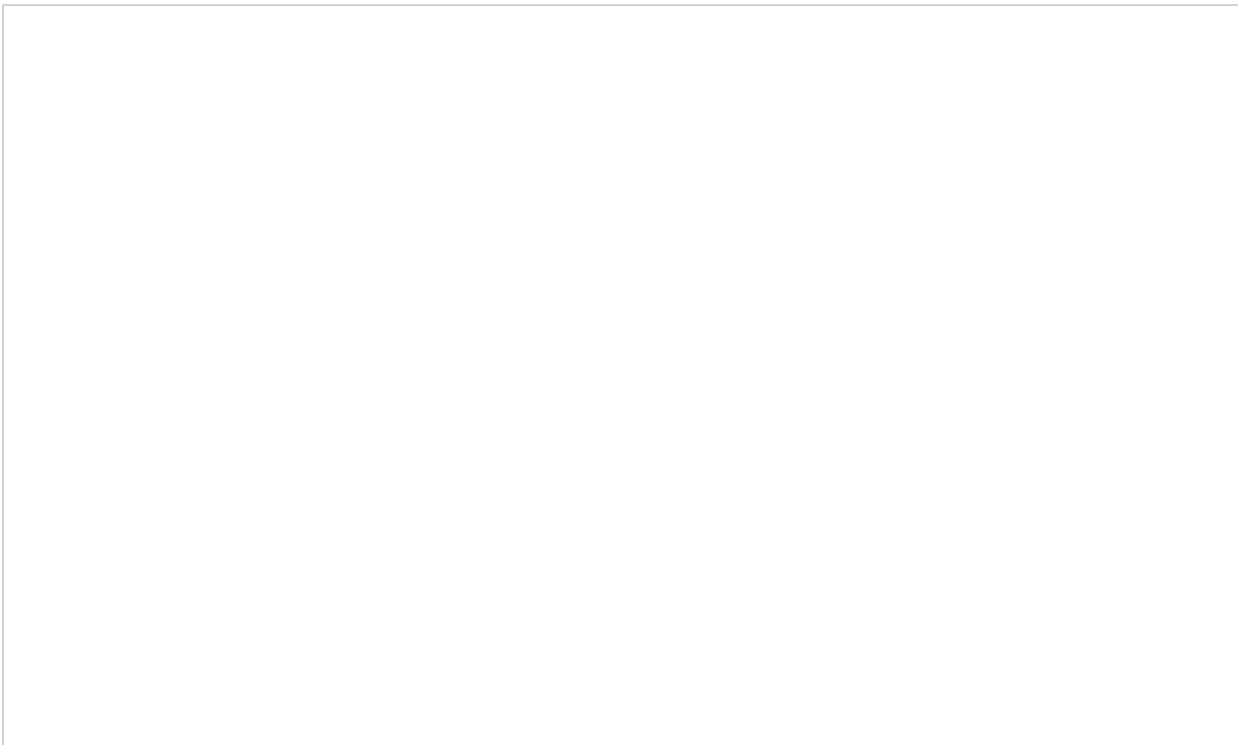
The screenshot shows a dialog box titled "Summary panel properties" with a close button (X) in the top right corner. The dialog has four tabs: "Title", "Content", "Background", and "Metrics". The "Metrics" tab is selected and contains the following settings:

Property	Value	Unit
Left	400	px
Top	32	px
Width	300	px
Height	112	px

At the bottom right of the dialog, there are two buttons: "Cancel" and "Save". The "Save" button is highlighted with a red rectangular border.

Summary panel - overview video

For a live demonstration of how to design and customise a summary panel, watch the video below:



RSS panel

RSS panel

- What is an RSS panel?
- Adding an RSS panel
- Customising an RSS panel
- RSS panel - overview video

What is an RSS panel?

An RSS panel allows you to send a live RSS feed to your display board. The example below shows an RSS panel displayed at the bottom of the board.

The dashboard displays the following data:

All Telesales					19:47:31	
Best performers					Summary stats	
Pos	Name	Calls ▼	Total dur	Avg dur	Total In	Longest In
1	Grace Harper	24	00:51:43	00:02:09	107	00:09:16
2	Christina Andrews	22	00:40:13	00:01:50		Grace Harper
3	Mark Longhorn	21	00:24:25	00:01:10	14	00:04:27
4	Sally Gansa	12	00:14:32	00:01:13		Lee Faithful
5	Ricardo De Souza	12	00:25:30	00:02:08	0	0.44
6	Jason Myers	12	00:22:17	00:01:51		
7	Billy Elliot	7	00:16:37	00:02:22		
8	Malcolm Meehan	3	00:02:28	00:00:49	Most Expensive	
9	Lee Faithful	3	00:05:04	00:01:41	Lee Faithful	

Fire rages near N. Mexico nuclear plant

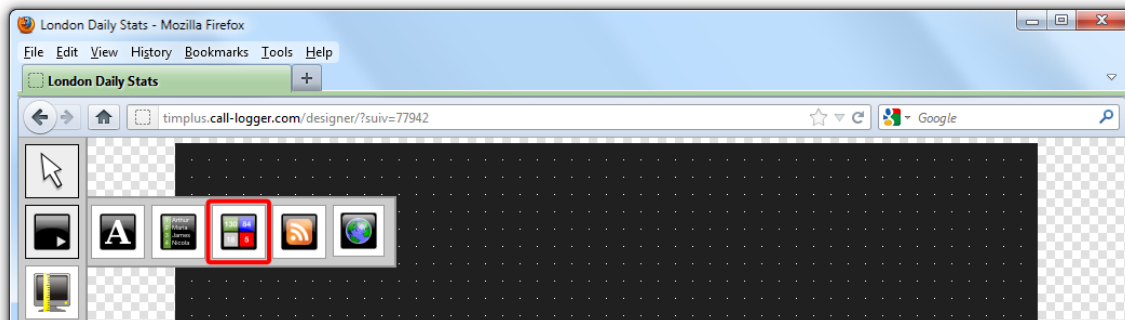
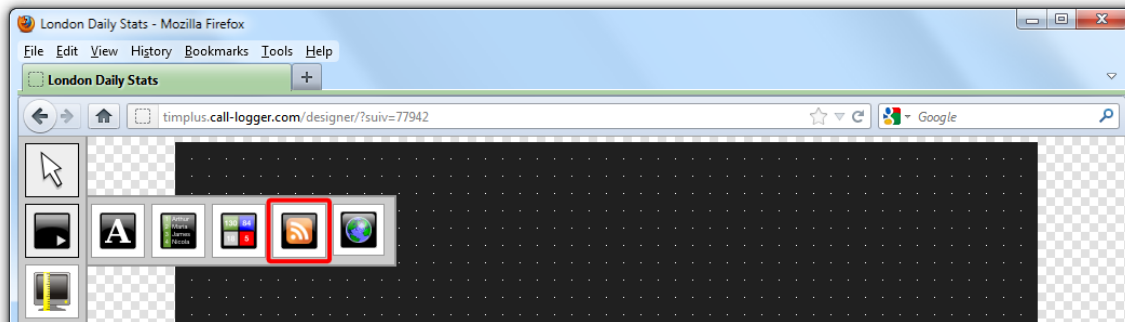
The fire is about a mile from the Los Alamos National Laboratory. All nuclear materials are protected, lab officials said in a statement.

Adding an RSS panel

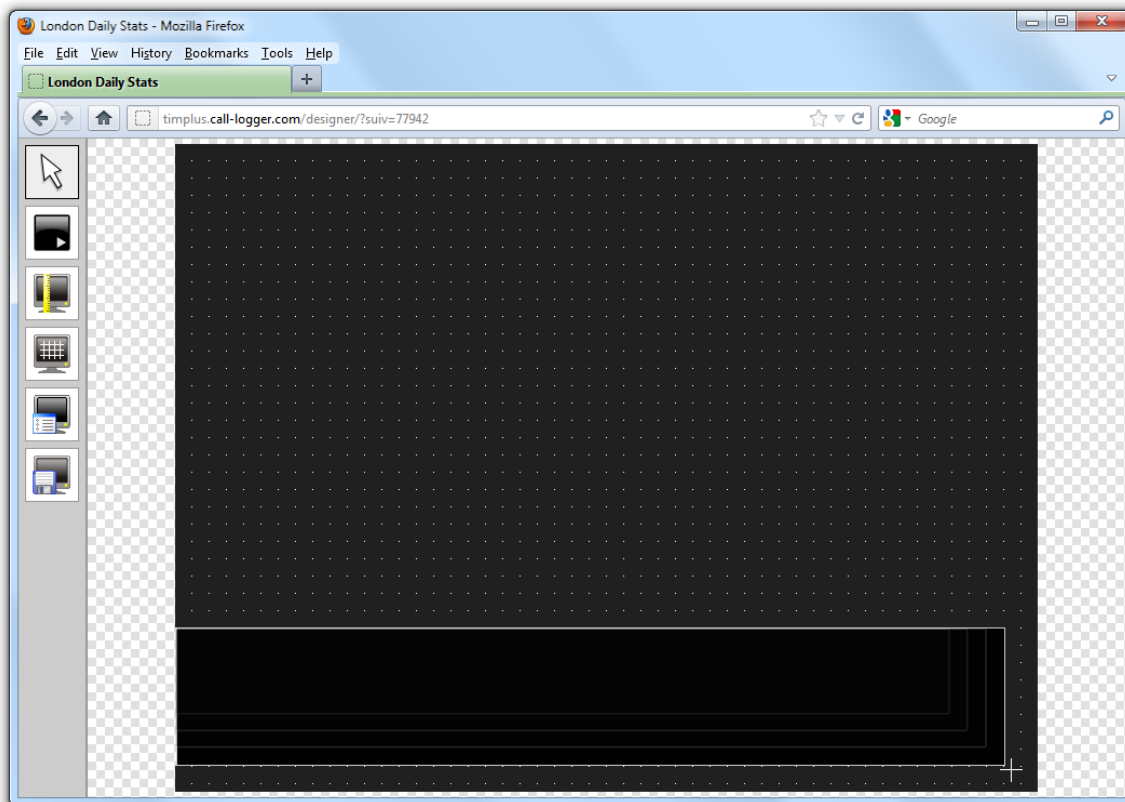


To add an RSS panel, click on the toolbar button to expand the list of panel types and choose the button, as shown below:







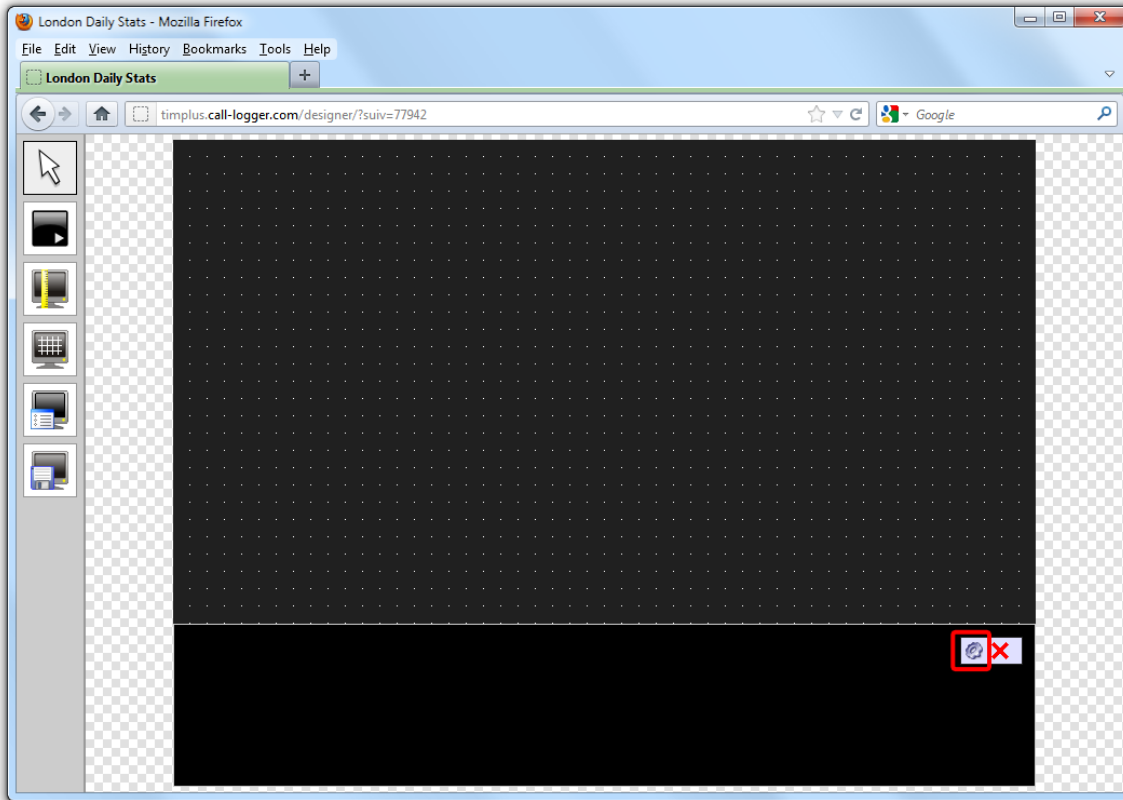
After selecting the RSS panel button, the mouse pointer changes into a white crosshair pointer, indicating that the designer is ready to draw your panel. Click and hold your left mouse button, starting at the point defining the upper-left corner of your new panel. Whilst still holding down the left mouse button, drag the marquee that will appear to the point that will define the lower-right corner of your panel, as shown below:



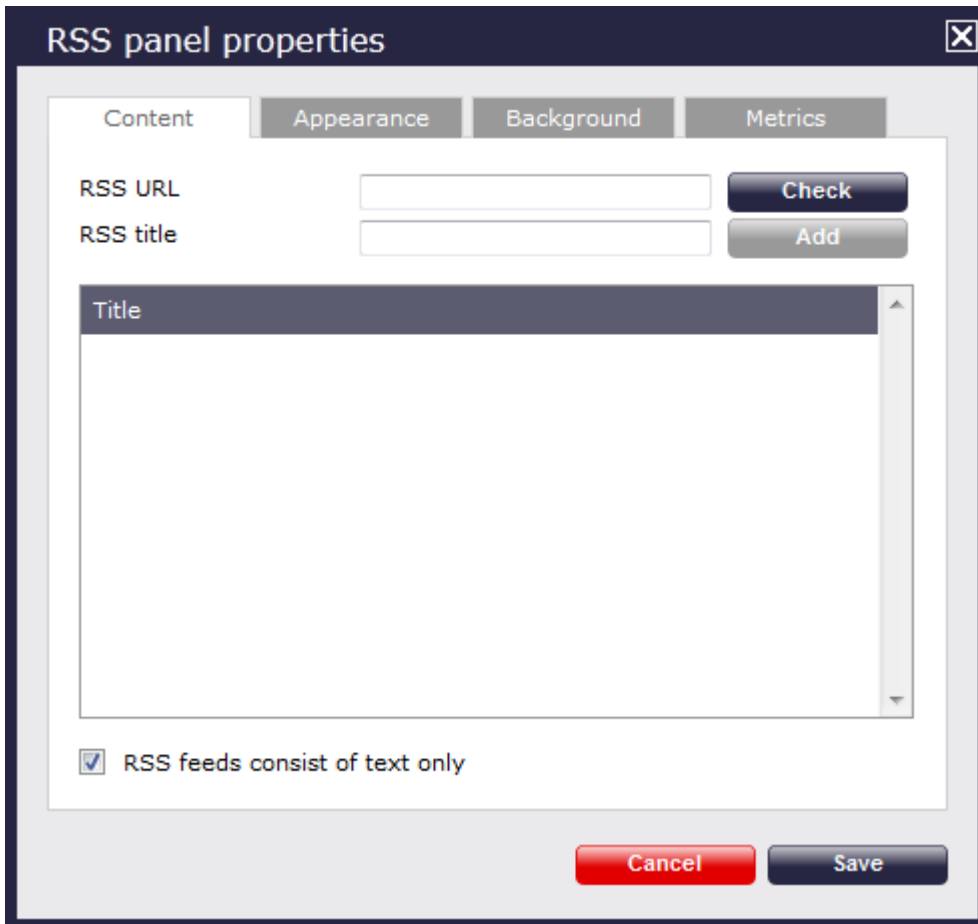
Customising an RSS panel



To customize an RSS panel, click on the  toolbar button to switch to panel selection mode. Hover your mouse pointer over the label panel you want to customise and click on the  icon, when it appears towards the top-right corner of the panel, as shown below:



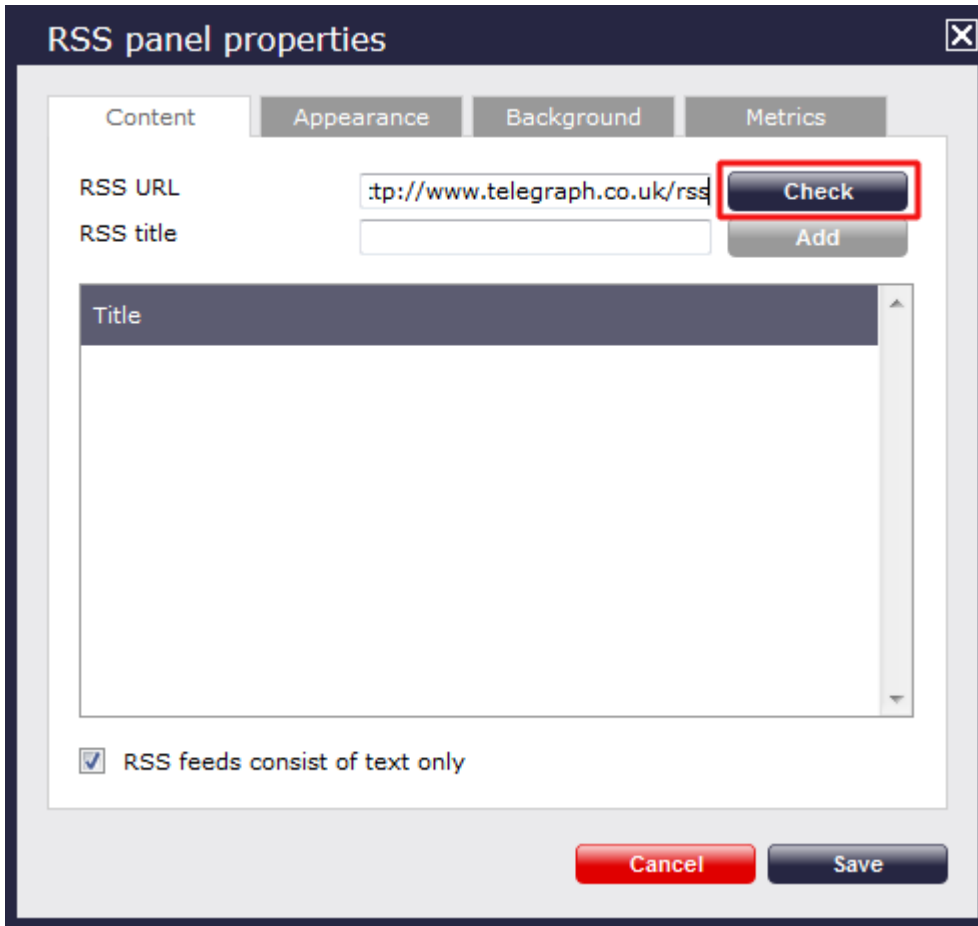
The `RSS panel properties` window will open, containing the following tabs:



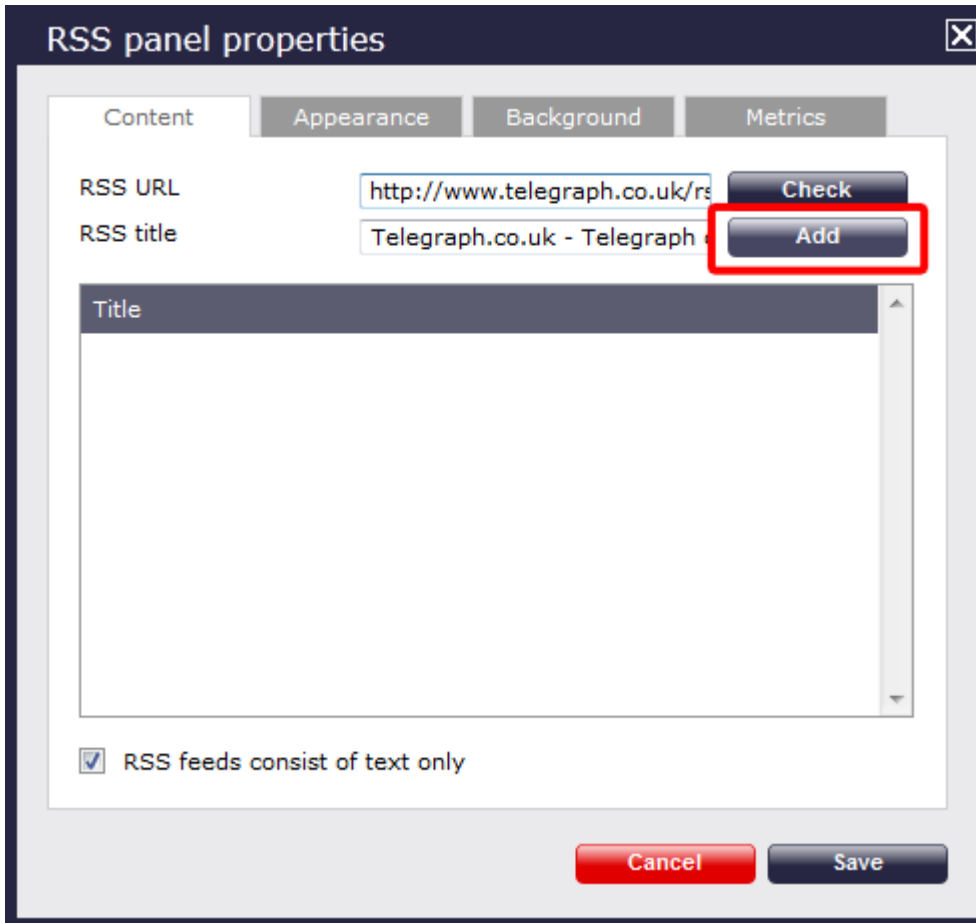
Content

The `Content` tab allows you to add the URL of your RSS feed, e.g. <http://www.telegraph.co.uk/rss>. To verify that the feed is valid,

click on the **Check** button.



If the entry is valid, the title of the RSS feed will appear in the `rss title` field. Click on the **Add** button to add this feed to your RSS panel, as shown below:



RSS panel properties [X]

Content | Appearance | Background | Metrics

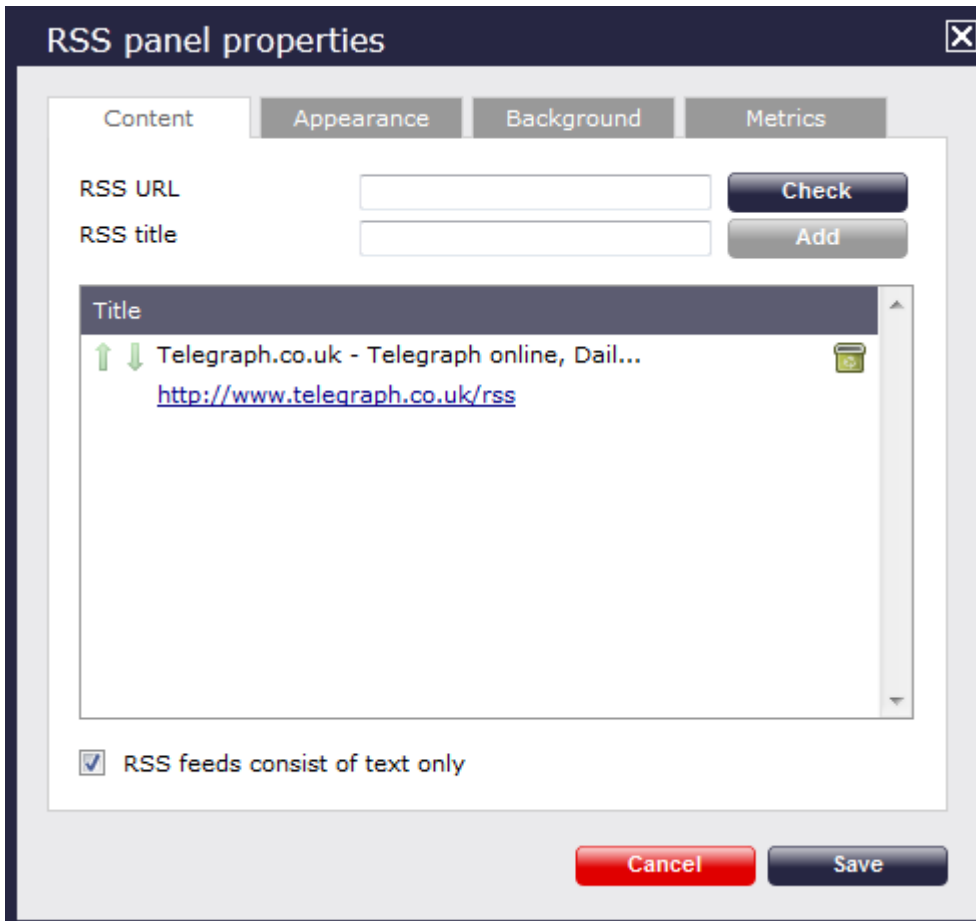
RSS URL

RSS title

Title

RSS feeds consist of text only

By default, this will appear in your RSS panel as follows:




RSS panel properties [X]

Content | Appearance | Background | Metrics

RSS URL

RSS title



Title

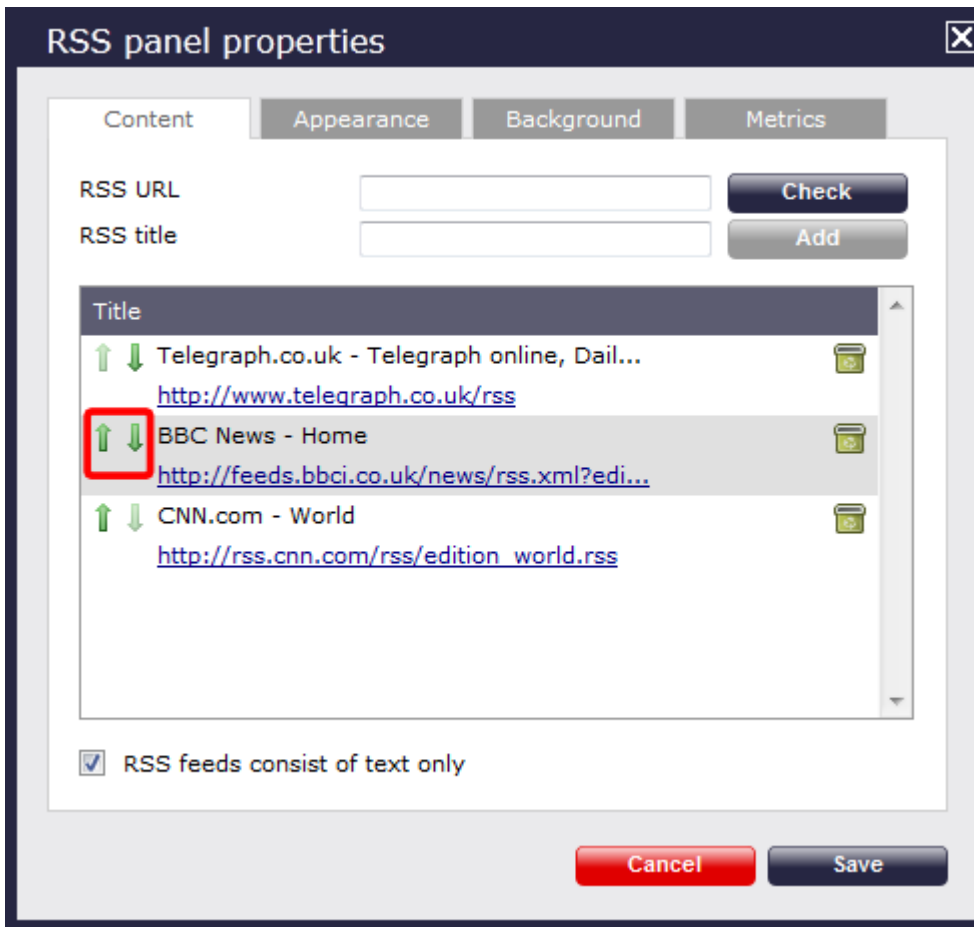
↑ ↓ Telegraph.co.uk - Telegraph online, Dail... 
<http://www.telegraph.co.uk/rss>

RSS feeds consist of text only


To add another RSS feed to your panel, follow the same procedure as described above.

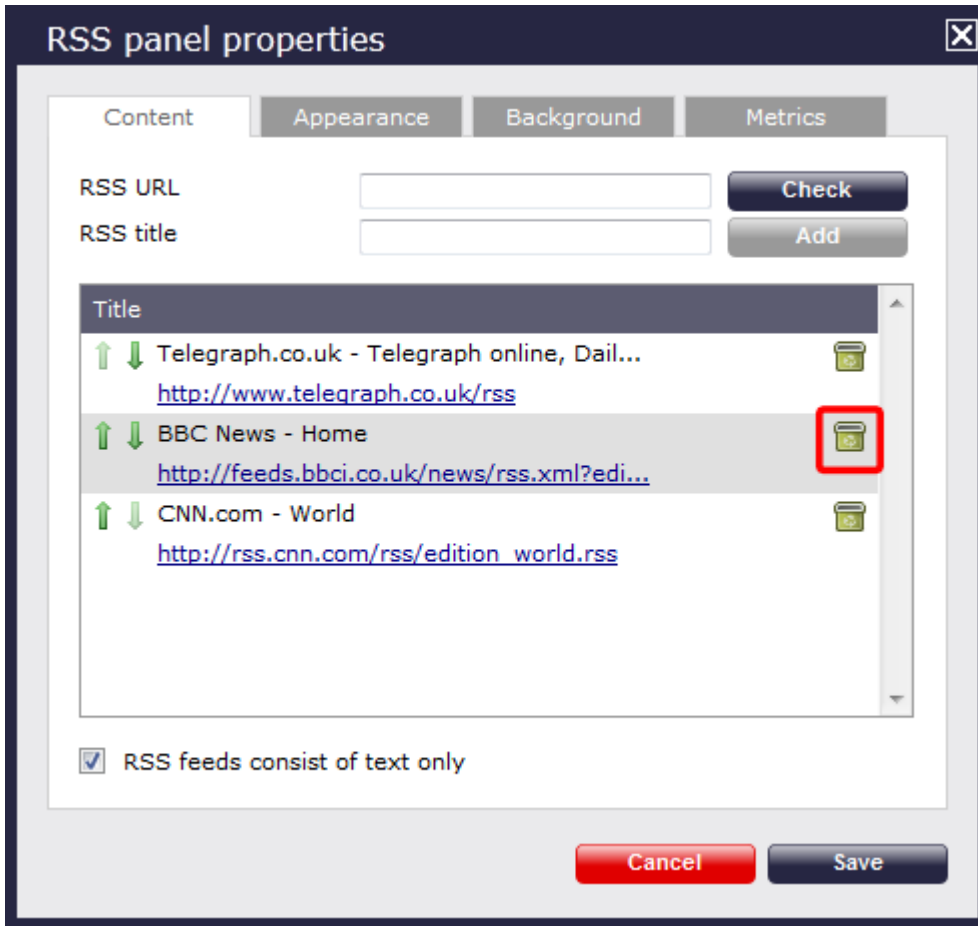
Reordering RSS feeds

If your RSS panel contains more than one RSS feed, you can change the order they will appear on your display board, by clicking on the   icons alongside each feed, as shown below:



Deleting an RSS feed

To delete an RSS feed from the panel, click on the  icon as shown below:



Appearance

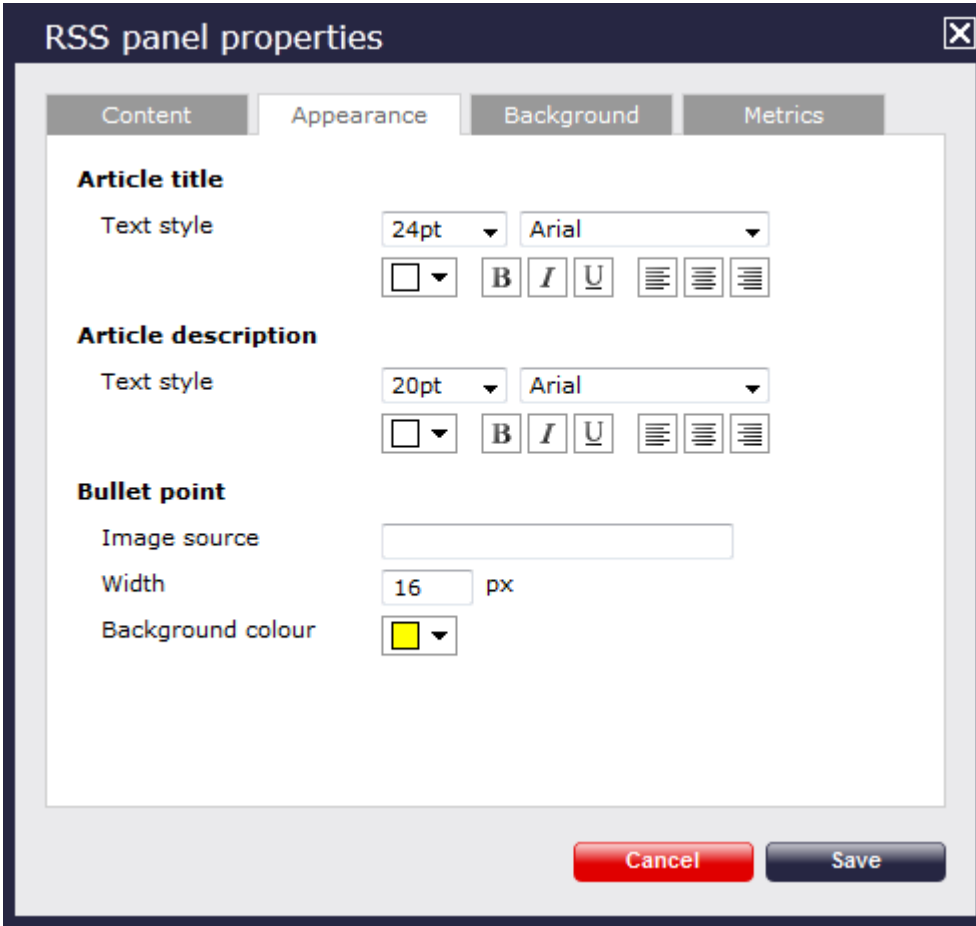
The **Appearance** tab allows you to change the look of your RSS feed, by amending one or more of the following properties: the article title, the article description and the bullet point, as shown below:

Bullet point

Article Title



Article description



Article title

Apply any styling properties, such as font size, font style or text colour, if you want to change the appearance of your article title.

Article title

Text style

Article description

Apply any styling properties, such as font size, font style or text colour, if you want to change the appearance of your article description.

Article description

Text style

Bullet point

Bullet point

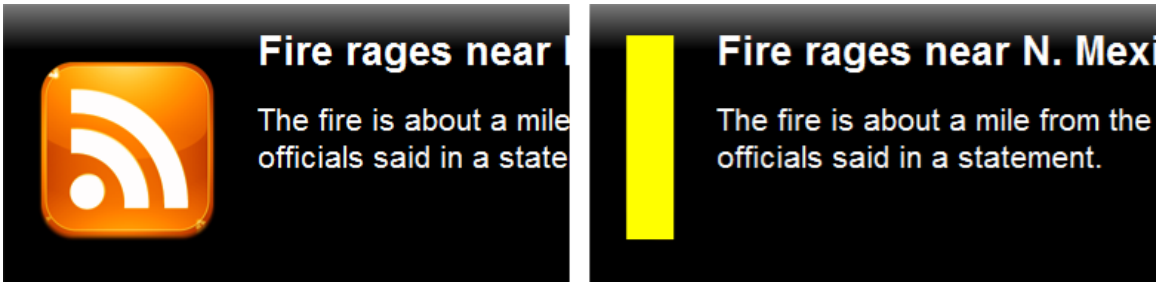
Image source

Width px

Background colour

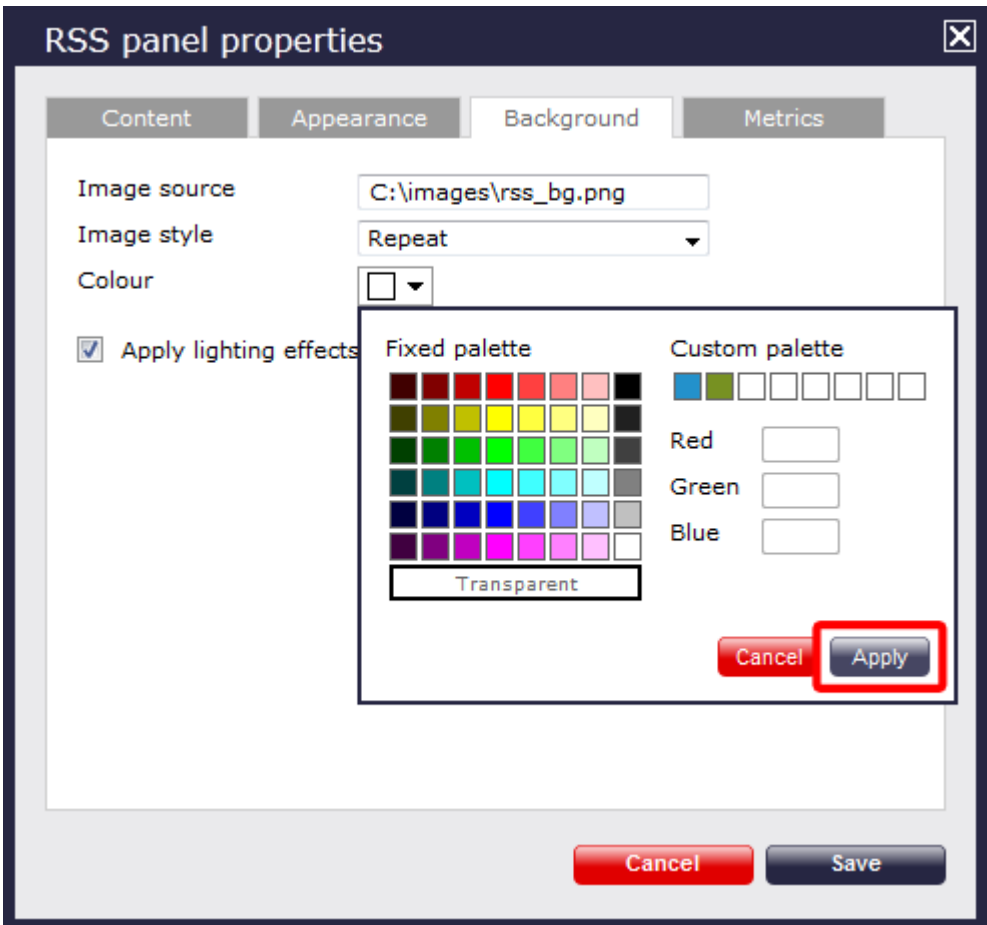
Field	Description
Image source	To use an image rather than a plain colour as your bullet point, enter its source here; the path is relative to the folder on disk from which the web content is served, and is different for each class of web user; the background colour should be set as Transparent , so it does not interfere with your image
Width	Define the width of the image, in pixels
Background colour	If you don't want to use an image as your bullet point, you can select a background colour

The example below shows two different bullet point implementations of the same RSS feed. On the left, you can see an image as a bullet point, whereas on the right the bullet point is a coloured rectangle of specific width.



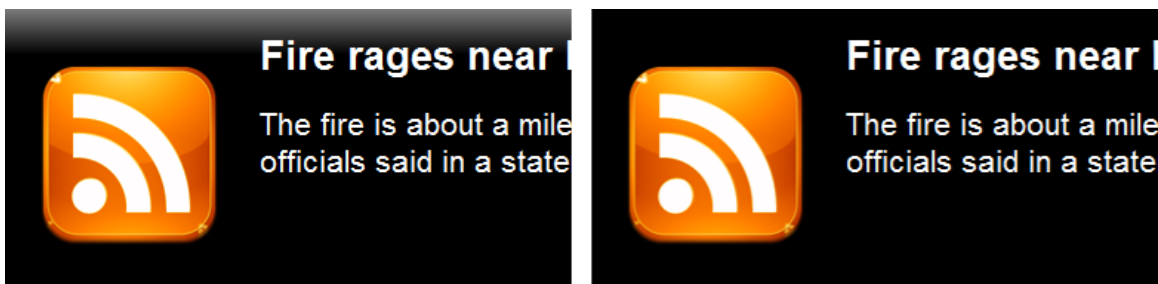
Background

The **Background** tab allows you to configure the background properties of your RSS panel.



Field	Description
Image source	If you want your panel to display an image, type its source here. Remember, the path is relative to the folder on disk from which the web content is served, and is different for each class of web user
Image style	Choose how the image should be displayed
Colour	Choose the background colour of the panel; if you are adding an image, you may want to select Transparent so that this does not interfere with your image
Apply lighting effects to this panel	Tick this option to apply a shine effect to the entire panel; if you are using the panel to display an image, this may adversely affect how it appears

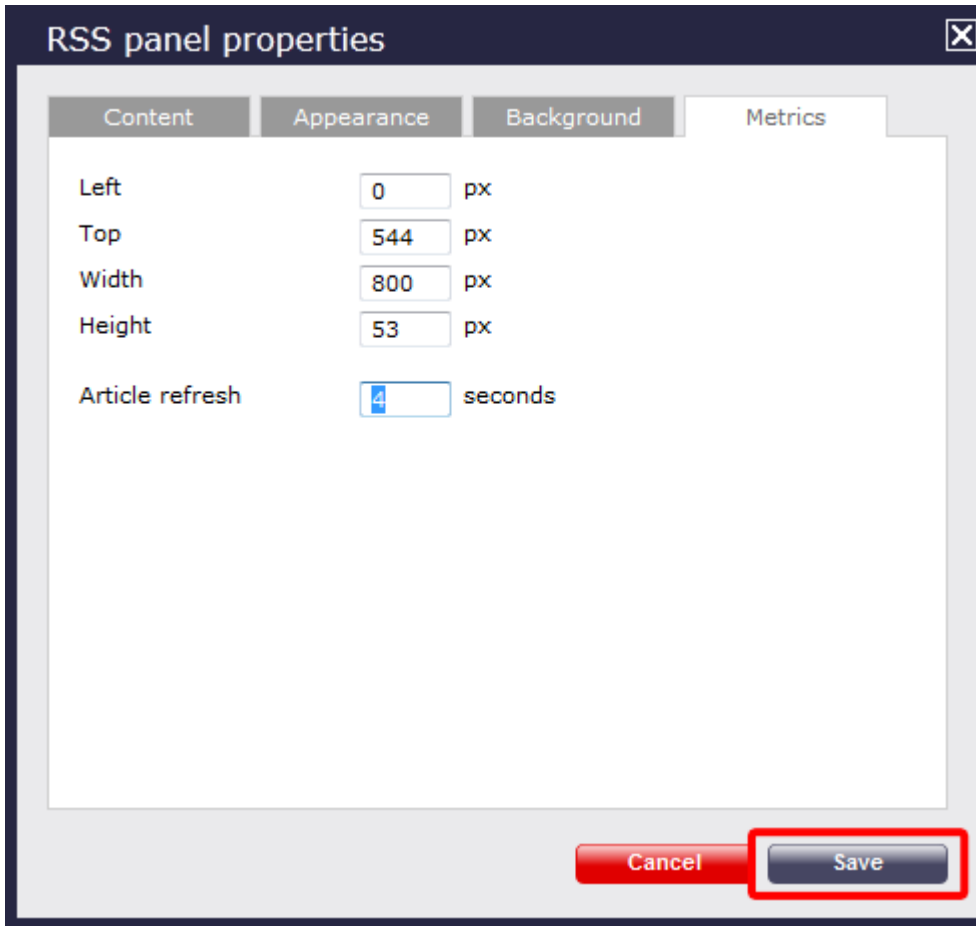
The two examples below show the difference between panels with and without lighting effects.



It is recommended that you check with the RSS feed provider that they are happy for you to use their feed.

Metrics

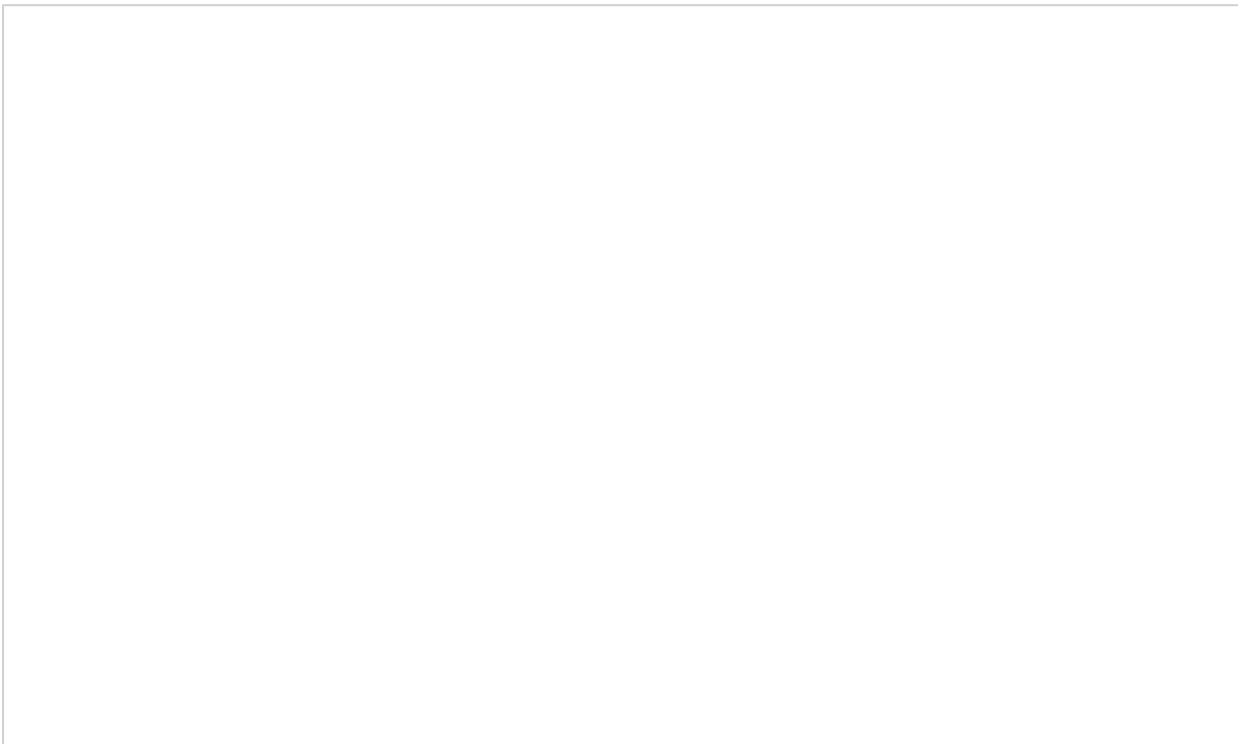
The **Metrics** tab allows you to define the shape of the panel, by entering values for its position and size. You are also given the option to determine the refresh frequency of the page, by entering a value in the **Article refresh** box.



When you have finished configuring the properties of your RSS panel, click on the **Save** button to apply the changes.

RSS panel - overview video

For a live demonstration of how to design and customise an RSS panel, watch the video below:



Web panel

Web panel

- What is a web panel?
- Adding a web panel
- Customising a web panel
- Web panel - overview video

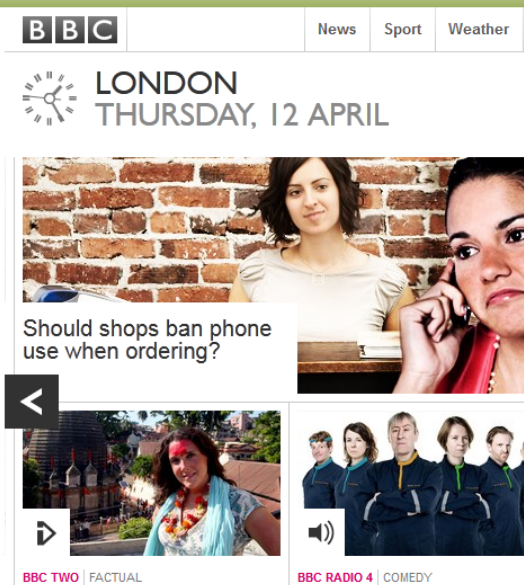
What is a web panel?

A web panel allows you to display a web page in any section of your display board. In the example below, the BBC News page is displayed on the right-hand side of the board, alongside a leaderboard panel.

12 April
13:25:47

London Daily Stats



Pos	Name	▼ Total	Total Duration	In	Lost	Out
1	Adam Zapel	18	00:06:41	0	0	17
2	Tom Morrow	16	00:28:09	14	0	1
3	Bea Minor	11	00:03:05	6	0	5
4	Cheri Pitts	10	00:14:40	9	0	0
5	Claire Annette	6	00:12:55	5	0	0
6	Jo Sargeant	5	00:02:02	0	0	4
7	Pat Downe	4	00:03:05	1	0	1
8	Olive Yew	4	00:03:54	1	0	2
9	Gail Storm	3	00:01:30	3	0	0



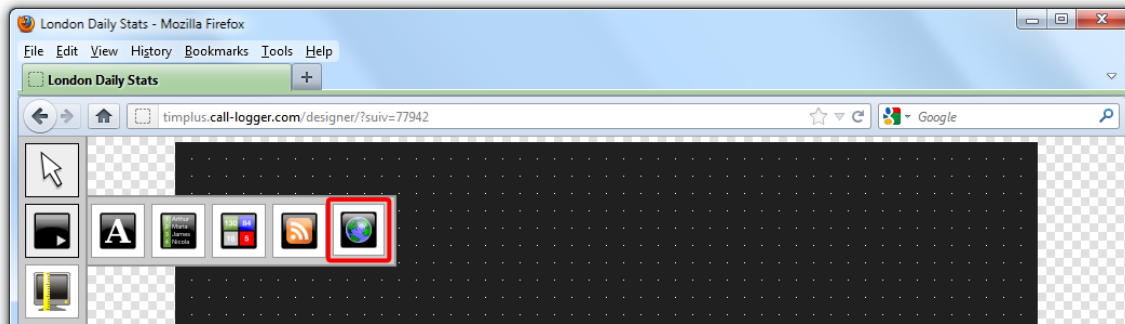
The screenshot shows the BBC News website interface. At the top, there's a navigation bar with 'BBC', 'News', 'Sport', and 'Weather'. Below that, a large clock icon is next to the text 'LONDON THURSDAY, 12 APRIL'. The main content area features a large image of two women, one on the phone, with the headline 'Should shops ban phone use when ordering?'. Below this are smaller thumbnails for 'BBC TWO | FACTUAL' and 'BBC RADIO 4 | COMEDY'.

Adding a web panel

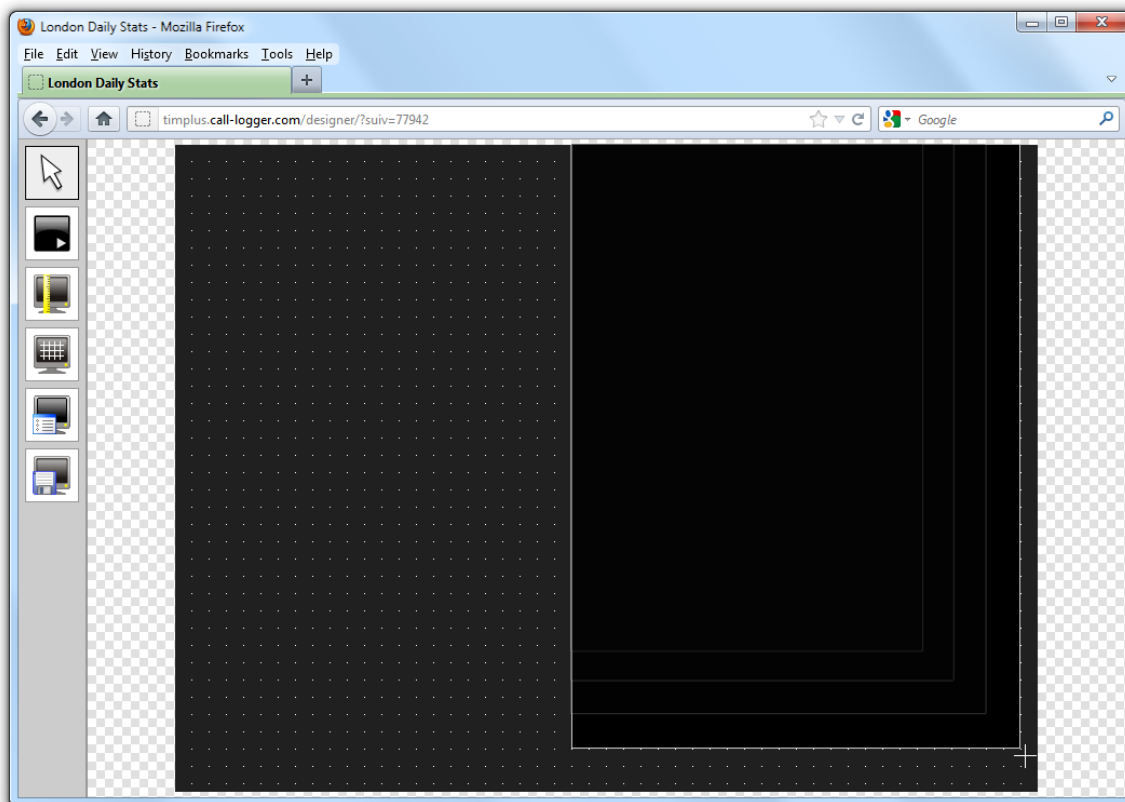


To add a web panel, click on the  toolbar button to expand the list of panel types and choose the  button, as shown below:







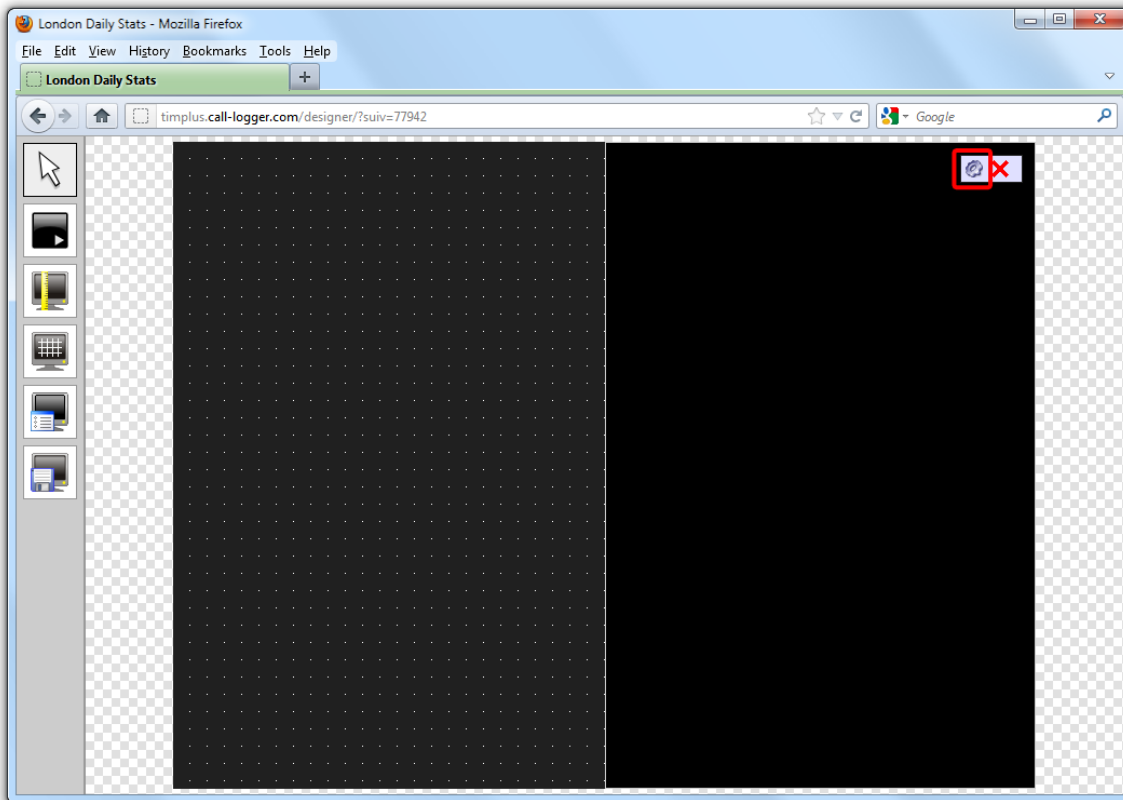
After selecting the web panel button, the mouse pointer changes into a white crosshair pointer, indicating that the designer is ready to draw your panel. Click and hold your left mouse button, starting at the point defining the upper-left corner of your new panel. Whilst still holding down the left mouse button, drag the marquee that will appear to the point that will define the lower-right corner of your panel, as shown below:



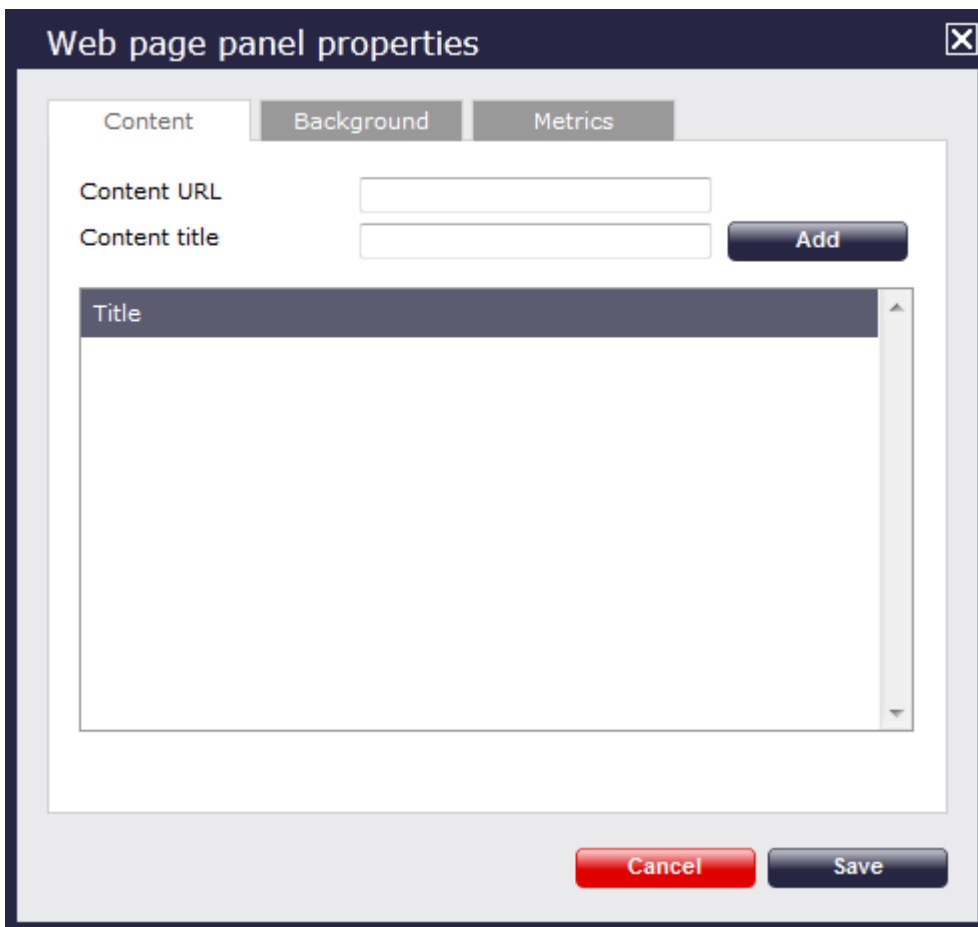
Customising a Web panel



To customize a web panel, click on the  toolbar button to switch to panel selection mode. Hover your mouse pointer over the label panel you want to customise and click on the  icon, when it appears towards the top-right corner of the panel, as shown below:

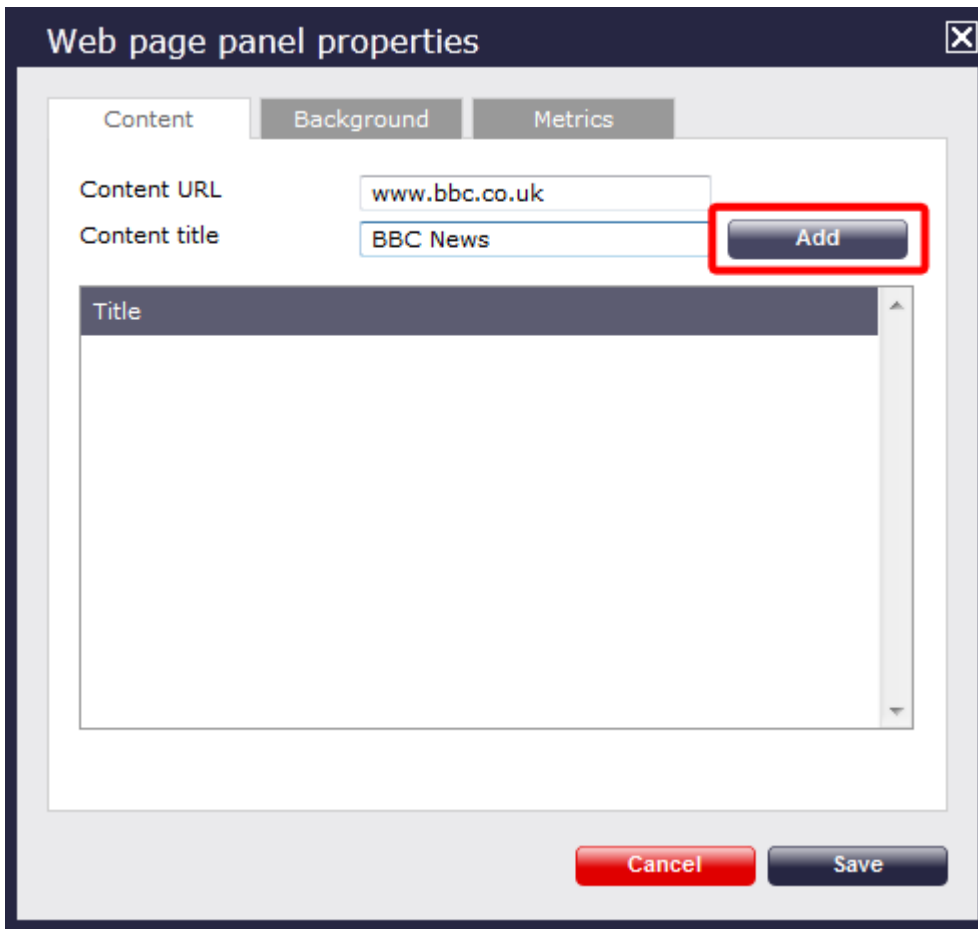


The web page panel properties window will open, containing the following tabs:




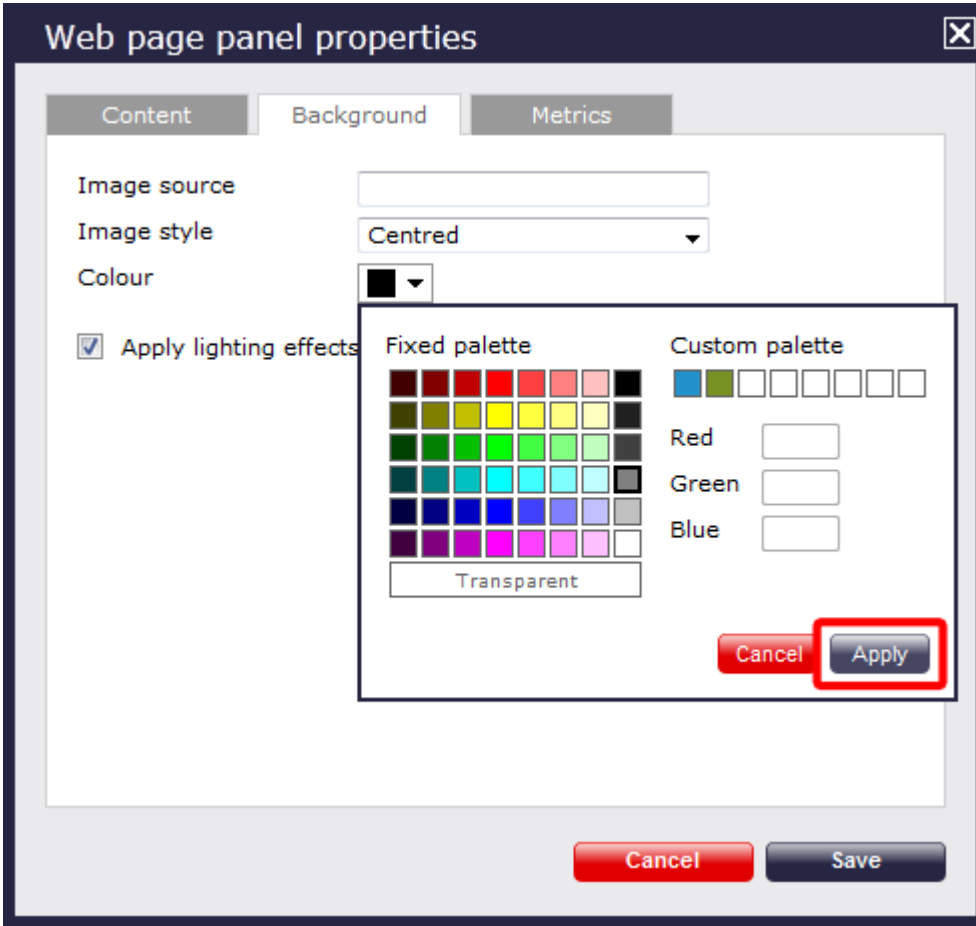
Content

The **Content** tab allows you to add the URL and title of the web page you want to display. Click on the **Add** button to add the web page to the panel, as shown below:



Background

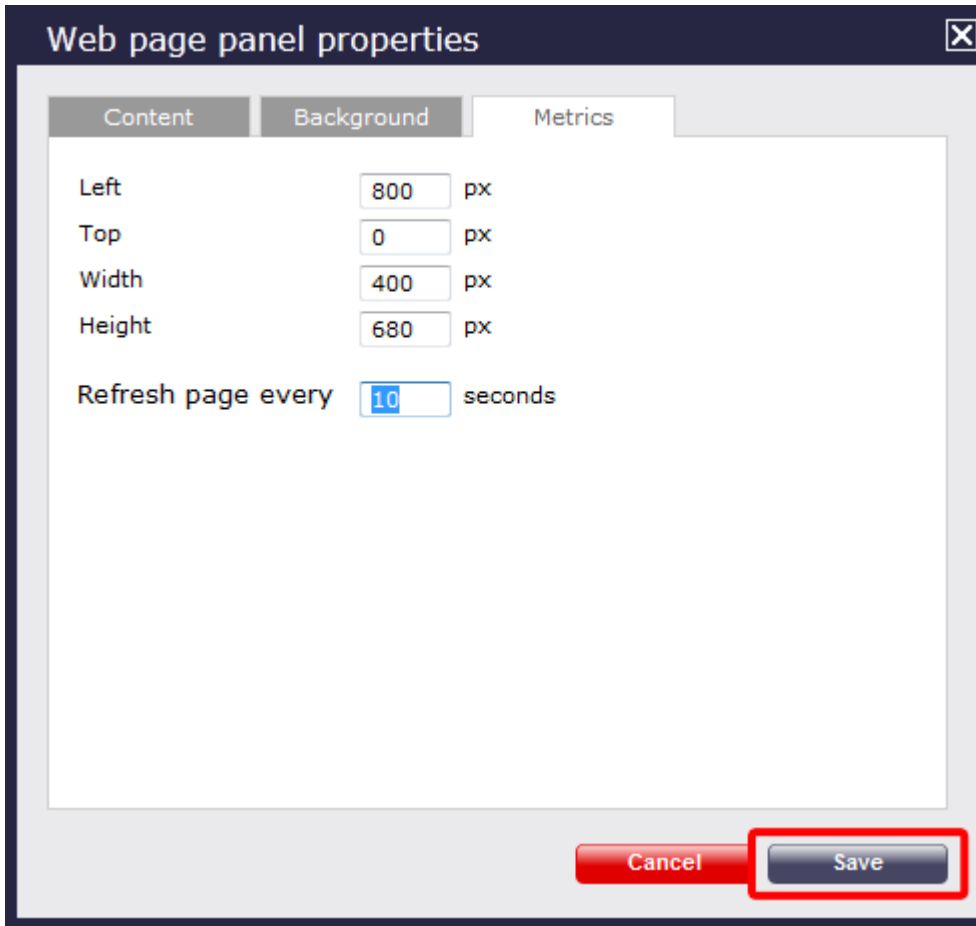
The  tab allows you to configure the background properties of your web panel.



Field	Description
Image source	If you want your panel to display an image, type its source here. Remember, the path is relative to the folder on disk from which the web content is served, and is different for each class of web user
Image style	Choose how the image should be displayed
Colour	Choose the background colour of the panel; if you are adding an image, you may want to select Transparent so that this does not interfere with your image
Apply lighting effects to this panel	Tick this option to apply a shine effect to the entire panel; if you are using the panel to display an image, this may adversely affect how it appears

Metrics

The **Metrics** tab allows you to define the shape of the panel, by entering values for its position and size. You are also given the option to determine the refresh frequency of the page, by entering a value in the **Refresh page** box, as shown below:



The screenshot shows a dialog box titled "Web page panel properties" with a close button (X) in the top right corner. The dialog has three tabs: "Content", "Background", and "Metrics". The "Metrics" tab is selected. It contains five input fields with labels and units:

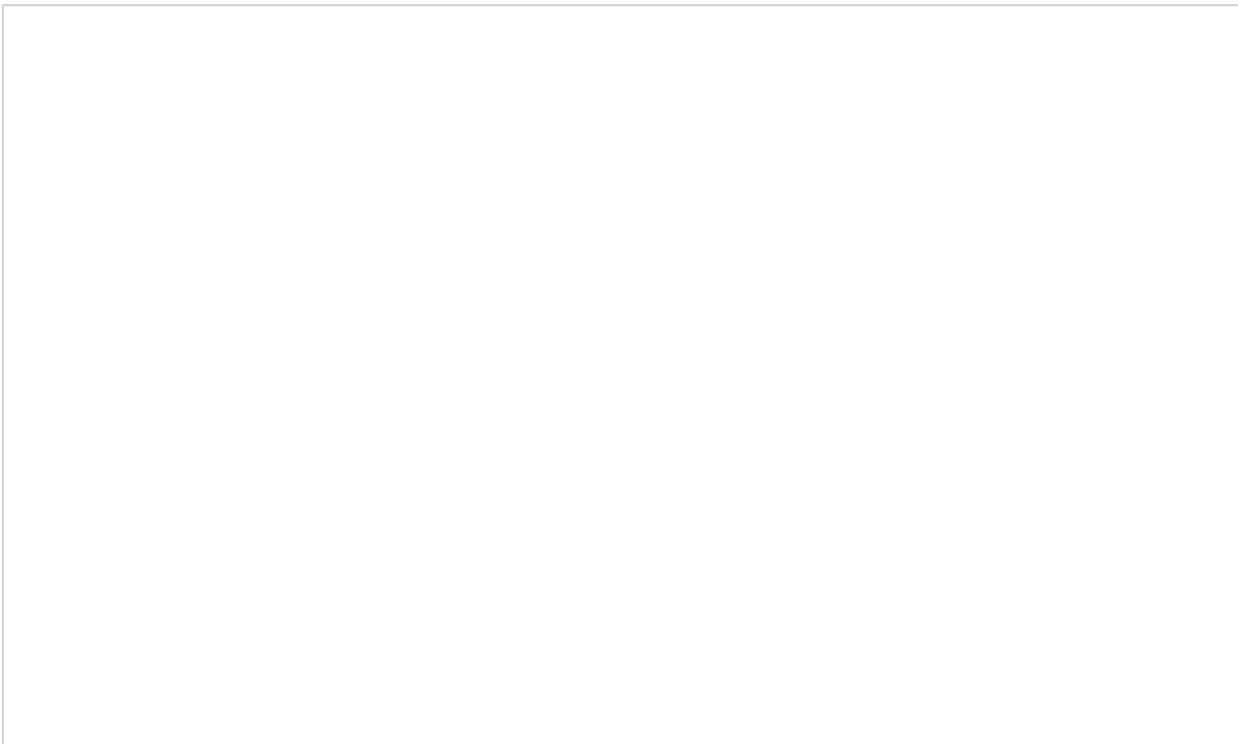
Property	Value	Unit
Left	800	px
Top	0	px
Width	400	px
Height	680	px
Refresh page every	10	seconds

At the bottom right of the dialog, there are two buttons: "Cancel" and "Save". The "Save" button is highlighted with a red rectangular border.

When you have finished configuring the properties of your Web panel, click on the **Save** button to apply the changes.

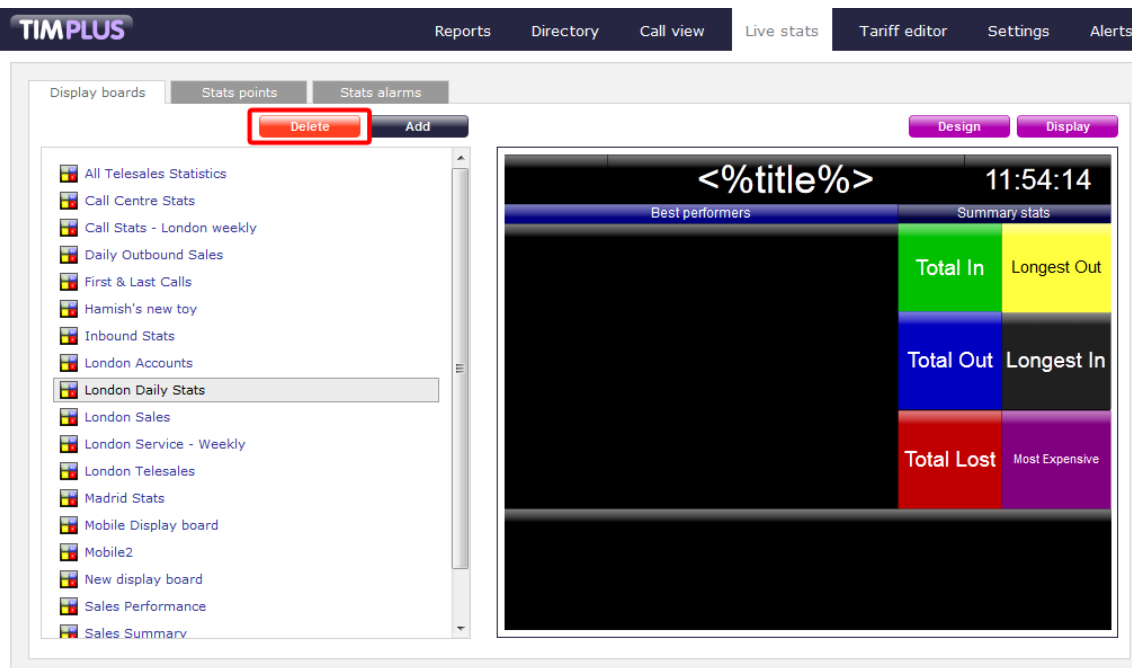
Web panel - overview video

For a live demonstration of how to design and customise a web panel, watch the video below:



Deleting a display board

To delete a display board, select it from the **Display boards** list and click on the **Delete** button at the top-right corner of the screen, as shown below:



FAQs

Q. How many display boards can I have?

A. There is no limit to the number of display boards allowed in TIM Plus.

Q. How much do display boards cost?

A. There is no charge for adding additional display boards to TIM Plus.

Some sample display boards are shown below:

10 February

Norway Weekly Stats

16:22:28

Total Lost	Total Outbound	Total Answered	Avg Dur
12	422	462	00:00:55

Name	Total Calls ▼	Ans	Ave dur (Ans)	Out	Ave dur (out)	Lost
Ali Katt	23	8	00:00:40	5	00:00:14	0
Bertrand Freur	20	1	00:03:01	12	00:00:16	0
Bill Board	17	5	00:01:40	2	00:00:19	0
Tom Katz	16	16	00:01:35	0	00:00:00	0
Pat Downe	16	4	00:01:30	7	00:00:53	0
Myles Long	16	9	00:03:34	5	00:01:57	0
Jo Sargeant	16	1	00:03:02	12	00:00:34	0
Crystal Ball	16	7	00:03:22	2	00:00:12	0

Call Center

Pos	Name	Total ▼	In	Out	Missed
1	Adam Zapel	110	2	103	0
2	Tom Morrow	64	58	2	0
3	Dan D. Lyons	59	5	48	0
4	Amanda Lynn	56	8	41	0
5	Bea Minor	51	36	12	0
6	Bill Loney	45	14	13	0
7	Lance Boyle	38	12	15	0
8	Al Fresco	36	11	13	0
9	Claire Annette	32	24	0	0
10	Cheri Pitts	27	26	0	0
11	Aretha Holly	27	5	16	0
12	Anna Recksiek	27	8	10	0

Your Logo

Total In

462

Total Out

422

Total Missed

12

New York Admin Team

Your Logo

Pos	Name	Total calls ▼	Total dur	In	Lost	Out
1	Adam Zapel	111	00:38:32	2	0	104
2	Tom Morrow	67	01:52:56	61	0	2
3	Dan D. Lyons	59	00:26:08	5	0	48
4	Amanda Lynn	57	00:20:12	8	0	42
5	Bea Minor	52	00:27:24	36	0	13
6	Bill Loney	45	00:45:22	14	0	13
7	Lance Boyle	38	00:32:47	12	0	15

Total In

474

Total Out

429

Missed

12

CNN.com
 CNN.com delivers up-to-the-minute news and information on the latest top stories, weather, entertainment, politics and more.


10 February

Paris Support Stats

16:28:53

Total In <h1 style="margin: 0;">465</h1>	Total Lost <h1 style="margin: 0;">12</h1>	Total Out <h1 style="margin: 0;">425</h1>	Total Calls <h1 style="margin: 0;">1122</h1>
Longest Ring <h1 style="margin: 0;">84</h1> <small>Tadao Ande</small>	Longest Ring <h1 style="margin: 0;">00:01:55</h1> <small>Mischa Solov</small>	Most Expensive <h1 style="margin: 0;">2.31</h1> <small>Ahrun Hussain</small>	Max Lines <h1 style="margin: 0;">5</h1>
Longest In <h1 style="margin: 0;">00:15:03</h1> <small>Olive Yew</small>	Last Missed <h1 style="margin: 0;">09:58:26</h1> <small>Mia Brennan</small>	Longest Out <h1 style="margin: 0;">00:25:39</h1> <small>Ahrun Hussain</small>	Total Duration <h1 style="margin: 0;">17:10:28</h1>

BBC News - Home
 The latest stories from the Home section of the BBC News web site.



Paris Weekly IT Team

Pos	Name	Total ▼	In	Out	Lost	Duration (In)	Duration (Out)	Total Duration
1	Adam Zapel	111	2	104	0	00:01:52	00:33:33	00:38:32
2	Tom Morrow	66	60	2	0	01:49:52	00:00:19	01:50:35
3	Dan D. Lyons	59	5	48	0	00:02:45	00:16:51	00:26:08
4	Amanda Lynn	57	8	42	0	00:05:42	00:10:49	00:20:12
5	Bea Minor	52	36	13	0	00:18:36	00:06:18	00:27:24
6	Bill Loney	45	14	13	0	00:06:02	00:14:16	00:45:22
7	Lance Boyle	38	12	15	0	00:07:37	00:13:39	00:32:47
8	Al Fresco	37	11	13	0	00:05:48	00:13:26	00:36:32
9	Claire Annette	34	26	0	0	00:39:48	00:00:00	00:46:34
10	Aretha Holly	31	5	19	0	00:06:04	00:29:31	00:39:47

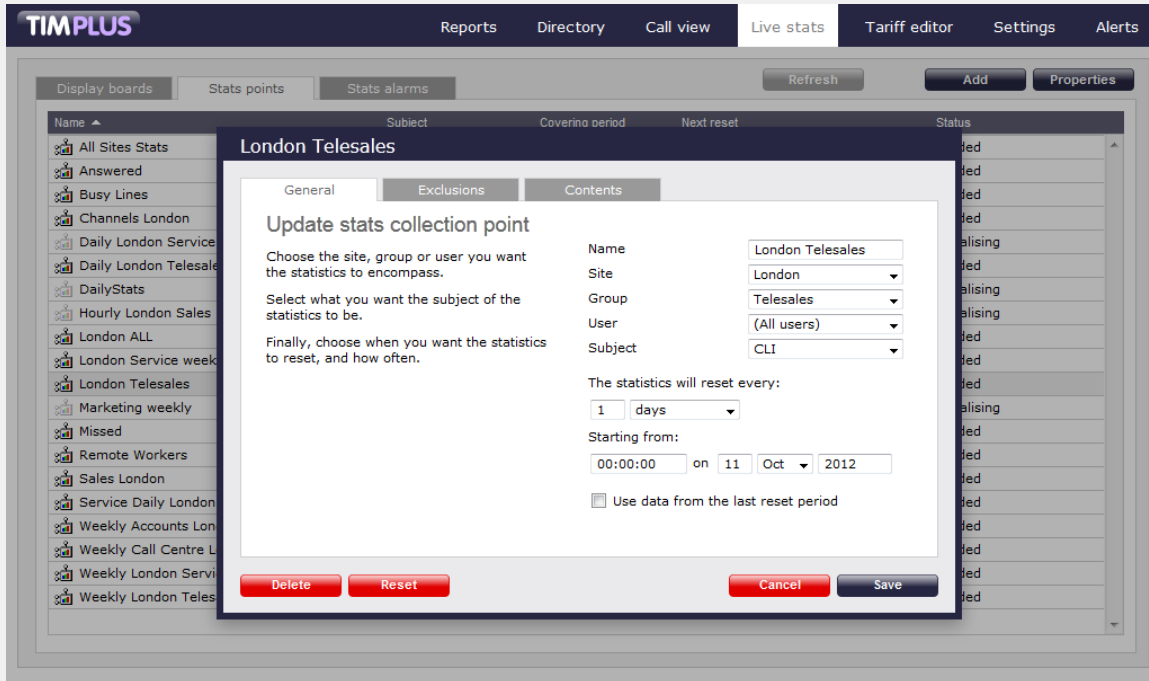
10 February **Barcelona Accounts** 16:24:42

Daily Statistics			Weekly Statistics		
In	109	Average duration 00:00:55	In	463	Average duration 00:01:08
Out	111	Average duration 00:00:54	Out	423	Average duration 00:00:46
Lost	4	Average ring 00:00:35	Lost	12	Average ring 00:00:27
Total	286		Total	1117	

Q. Can I show only missed calls on a display board?

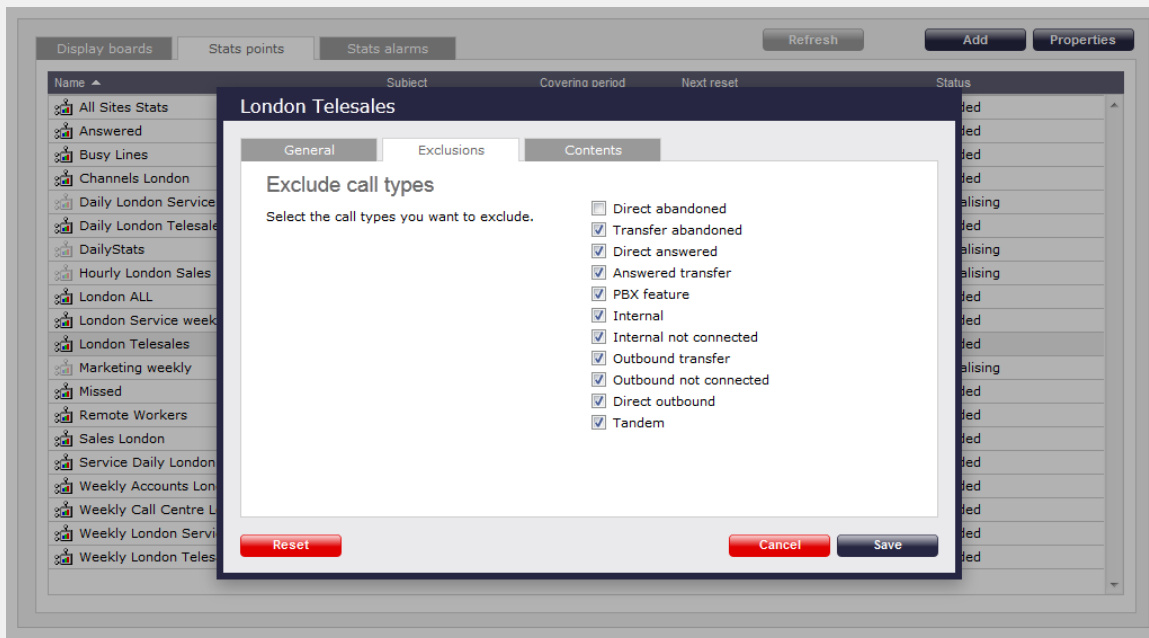
A. Yes. See details below:

1. When creating a stats collection point for your display board, select **CLI** from the drop-down list of the **Subject** field, as shown below:



2. Click on the **Exclusions** tab.

3. Tick the relevant boxes to exclude all call types except **Direct abandoned**.



Stats points

Stats points

- What is a stats point?
- Adding a stats point
- Configuring a stats point
- Excluding a user from a stats point
- Deleting a stats point
- Stats point - overview video

What is a stats point?

A statistics collection point (stats point) object is a mathematical "counter" whose scope of data collection is determined by its placement in your directory hierarchy. As calls are made and received, the properties of each one are collated for future consumption by display boards. Stats points can be configured to only collect calls of a certain type or calls whose properties match certain criteria.


TIMPLUS Reports Directory Call view Live stats Tariff editor Settings Alerts

Display boards Stats points Stats alarms Refresh Add Properties

Name	Subject	Covering period	Next reset	Status
All Sites Stats	User	1 day	18 May 2012 00:00:00	Loaded
Answered	Dialled number	1 day	18 May 2012 00:00:00	Loaded
Busy Lines	Channel group	1 day	18 May 2012 03:00:00	Loaded
Channels London	Channel group	1 day	18 May 2012 06:53:20	Loaded
Daily London Service	User	1 day		Loaded
Daily London Telesales	User	1 day	18 May 2012 00:00:00	Loaded
DailyStats	User	1 day		Loaded
Dialled Numbers	Dialled number	1 day	18 May 2012 00:00:00	Loaded
Hourly London Sales	User	1 hour		Loaded
London ALL	User	1 week	18 May 2012 03:33:20	Loaded
London Service weekly	User	1 week	20 May 2012 00:00:00	Loaded
London Telesales	User	1 day	18 May 2012 00:00:00	Loaded
Marketing weekly	User	1 week		Loaded
Michaels team	User	1 day	18 May 2012 00:07:00	Loaded
Missed	User	1 day	18 May 2012 00:00:00	Loaded
New users	User	5 minutes		Loaded
Remote Workers	User	1 week	20 May 2012 00:01:00	Loaded
Sales London	User	1 week	20 May 2012 00:00:00	Loaded
Sales Test	User	1 day	18 May 2012 00:00:00	Loaded
Service Daily London	User	1 day	18 May 2012 00:00:00	Loaded
Test	User	1 day	18 May 2012 00:00:00	Loaded

Adding a stats point

To add a stats point, select the **Live stats** tab and click on the **Stats points** button.

 There is no limit to the number of stats points allowed in TIM Plus.

The screenshot shows the TIMPLUS interface with a navigation bar at the top containing 'Reports', 'Directory', 'Call view', 'Live stats', 'Tariff editor', 'Settings', and 'Alerts'. Below this is a sub-panel with tabs for 'Display boards', 'Stats points', and 'Stats alarms'. The 'Stats points' tab is active, displaying a table of stats points. The 'Add' button in the top right of this panel is highlighted with a red box.

Name	Subject	Covering period	Next reset	Status
All Sites Stats	User	1 day	28 March 2013 00:00:00	Loaded
All Stats	User	1 day	28 March 2013 00:00:00	Loaded
Answered	Dialled number	1 day	28 March 2013 00:00:00	Loaded
Busy Lines	Channel group	1 day	28 March 2013 03:00:00	Loaded
Call Groups	Channel	1 day	28 March 2013 11:00:00	Loaded
Channels London	Channel group	1 day	28 March 2013 03:00:00	Loaded
Daily London Service	User	1 day	28 March 2013 00:00:00	Loaded
Daily London Telesales	User	1 day	28 March 2013 00:00:00	Loaded
DailyStats	User	1 day	28 March 2013 00:00:00	Loaded
Dialled Numbers	Dialled number	1 day	28 March 2013 00:00:00	Loaded
Hourly London Sales	User	1 hour	27 March 2013 16:00:00	Loaded
London ALL	User	1 week	29 March 2013 03:33:20	Loaded
London Daily Stats	User	1 day	28 March 2013 00:00:00	Loaded
London Service weekly	User	1 week	31 March 2013 00:00:00	Loaded
London Telesales	User	1 day	28 March 2013 00:00:00	Loaded
Marketing weekly	User	1 week	01 April 2013 00:00:00	Loaded
Missed	User	1 day	28 March 2013 00:00:00	Loaded
Non-Geographic No's	Dialled number	1 month	01 April 2013 00:00:00	Loaded
Sales London	User	1 week	31 March 2013 00:00:00	Loaded
Sales Test	User	1 day	28 March 2013 00:00:00	Loaded
Service Daily London	User	1 day	28 March 2013 00:00:00	Loaded
US Daily Stats	User	1 day	28 March 2013 01:00:00	Loaded

A new window will open, where you can configure the properties of your stats point. Once you have entered all the parameters, click on the **Add** button to add the new stats point to the list.

The screenshot shows a dialog box titled 'Add new stats collection point'. It has two tabs: 'General' and 'Exclusions'. The 'General' tab is active. The dialog contains the following information:

New stats collection point
 A stats collection point collects call data grouped by a common subject. This can be based on user, user group, channel, channel group, dialled number, chargeband, destination, half hour time slots, or account code.

Choose the site, group or user you want the statistics to encompass.

Select what you want the subject of the statistics to be.

Finally, choose when you want the statistics to reset, and how often.

Name: [Text field]
Site: (All sites) [Dropdown]
Group: [Dropdown]
User: [Dropdown]
Subject: User [Dropdown]

The statistics will reset every: 1 days [Dropdown]

Starting from: 00:00:00 on 19 May 2012 [Date/Time fields]

Use data from the last reset period

Buttons: **Cancel** (red), **Add** (dark blue)

Configuring a stats point

To configure or edit a stats collection point, select it from the `stats points` list and click on the **Properties** button at the top-right corner of the panel, as shown below:

TIMPLUS					
Reports		Directory		Call view	
Live stats		Tariff editor		Settings Alerts	
Display boards		Stats points		Stats alarms	
Refresh Add Properties					
Name	Subject	Covering period	Next reset	Status	
All Sites Stats	User	1 day	28 March 2013 00:00:00	Loaded	
All Stats	User	1 day	28 March 2013 00:00:00	Loaded	
Answered	Dialled number	1 day	28 March 2013 00:00:00	Loaded	
Busy Lines	Channel group	1 day	28 March 2013 03:00:00	Loaded	
Call Groups	Channel	1 day	28 March 2013 11:00:00	Loaded	
Channels London	Channel group	1 day	28 March 2013 03:00:00	Loaded	
Daily London Service	User	1 day	28 March 2013 00:00:00	Loaded	
Daily London Telesales	User	1 day	28 March 2013 00:00:00	Loaded	
DailyStats	User	1 day	28 March 2013 00:00:00	Loaded	
Dialled Numbers	Dialled number	1 day	28 March 2013 00:00:00	Loaded	
Hourly London Sales	User	1 hour	27 March 2013 16:00:00	Loaded	
London ALL	User	1 week	29 March 2013 03:33:20	Loaded	
London Daily Stats	User	1 day	28 March 2013 00:00:00	Loaded	
London Service weekly	User	1 week	31 March 2013 00:00:00	Loaded	
London Telesales	User	1 day	28 March 2013 00:00:00	Loaded	
Marketing weekly	User	1 week	01 April 2013 00:00:00	Loaded	
Missed	User	1 day	28 March 2013 00:00:00	Loaded	
Non-Geographic No's	Dialled number	1 month	01 April 2013 00:00:00	Loaded	
Sales London	User	1 week	31 March 2013 00:00:00	Loaded	
Sales Test	User	1 day	28 March 2013 00:00:00	Loaded	
Service Daily London	User	1 day	28 March 2013 00:00:00	Loaded	
US Daily Stats	User	1 day	28 March 2013 01:00:00	Loaded	

A new window will open, allowing you to configure the properties of your stats point object. Each tab in this window will be explained below:

General properties

The **General** tab allows to configure the general properties of your stats collection point, such as name, entity, subject or reset frequency:

London Daily Stats

General
Exclusions
Contents

Update stats collection point

Choose the site, group or user you want the statistics to encompass.

Select what you want the subject of the statistics to be.

Finally, choose when you want the statistics to reset, and how often.

Name:

Site:

Group:

User:

Subject:

The statistics will reset every:

Starting from:

on

Use data from the last reset period

Delete
Reset
Cancel
Save

Name

Enter or edit the name of your stats collection point.

Name

Site

If you want your stats point to include calls from one site only, select the site from the drop-down list.

Site	London ▼
------	----------

Group

If you have selected a site and want your stats point to include only calls from one particular user group within that site, select the group from the drop-down list.

Group	Accounts ▼
-------	------------

User

If you have selected a site and a user group and want your stats point to include only calls from one individual user within that user group, select the user from the drop-down list.

Users	(All users) ▼
-------	---------------

Subject

The stats points can be configured to group the collected calls by a particular subject, such as users, channels, dialled number, half-hour time slot etc. To choose a subject, select it the drop-down list.

Subject	Channel group ▼
---------	-----------------

Reset frequency

Choose when to reset your stats point, by entering the date and time in the *Starting from* section; to choose the frequency with which you want them to reset, select a predefined period from the drop-down list, as shown below:

The statistics will reset every:

1	days ▼
---	--------

Starting from:

00:00:00	on	28	Mar ▼	2013
----------	----	----	-------	------

Last reset period data

This option allows you to keep a copy of the previous stats for comparison purposes, e.g. if you want to compare today's stats with yesterday's. Select the tick-box provided to enable this feature.

Use data from the last reset period

In the example below, the stats point is set for all users of the *Accounts* team in *London* site, and it resets every day.

London Daily Stats
✕

General

Exclusions

Contents

Update stats collection point

Choose the site, group or user you want the statistics to encompass.

Select what you want the subject of the statistics to be.

Finally, choose when you want the statistics to reset, and how often.

Name	<input type="text" value="London Daily Stats"/>
Site	<input type="text" value="London"/>
Group	<input type="text" value="Accounts"/>
User	<input type="text" value="(All users)"/>
Subject	<input type="text" value="User"/>

The statistics will reset every:

Starting from:

on

Use data from the last reset period

Delete

Reset

Cancel

Save



Because there is no limit on the number of stats points you are allowed to have in TIM Plus, you can add several stats points at any one place, refreshing at different times, e.g. daily, weekly and monthly.

Exclusions

If you want to exclude certain call types from your statistics, click on the **Exclusions** tab and tick the box against the type of calls you don't want to include in your stats point.

London Daily Stats
✕

General

Exclusions

Contents

Exclude call types

Select the call types you want to exclude.

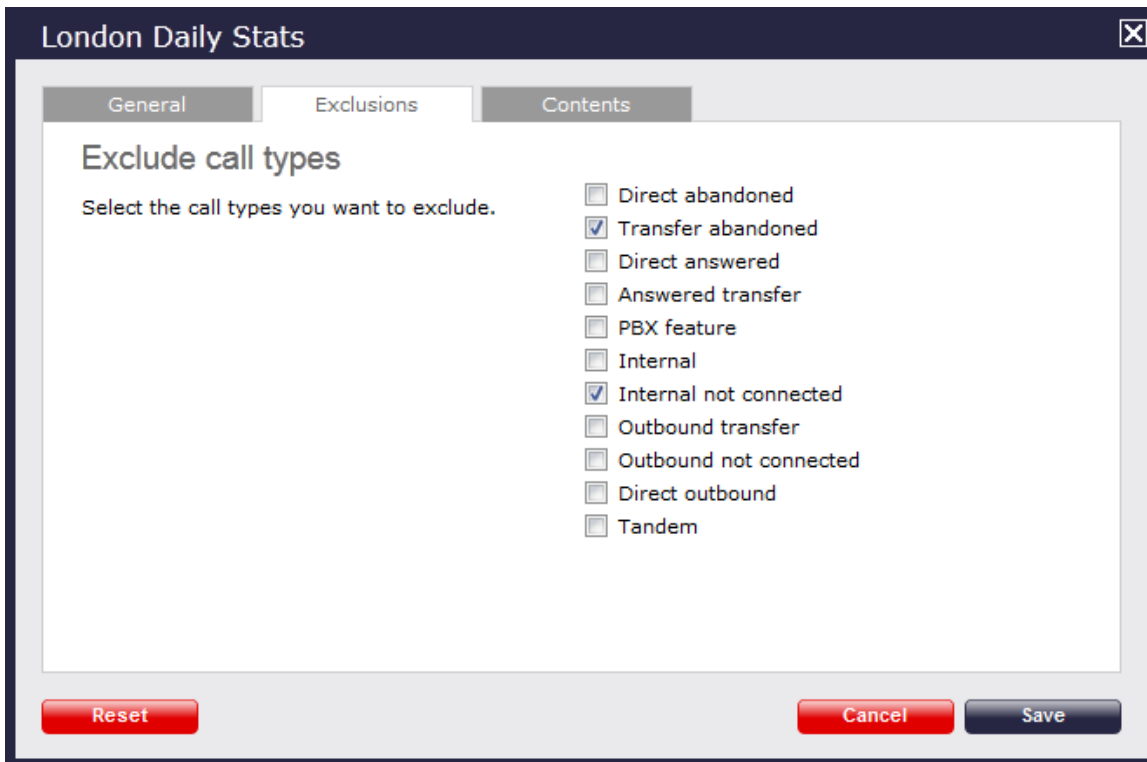
- Direct abandoned
- Transfer abandoned
- Direct answered
- Answered transfer
- PBX feature
- Internal
- Internal not connected
- Outbound transfer
- Outbound not connected
- Direct outbound
- Tandem

Reset

Cancel

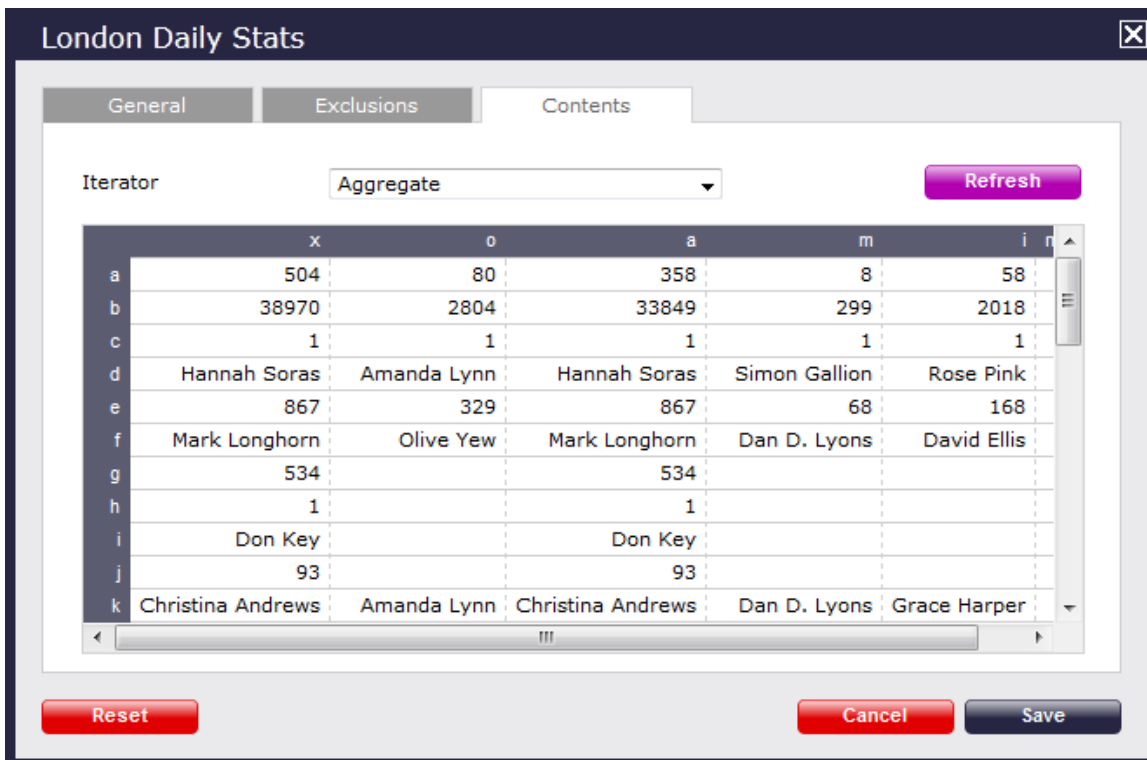
Save

The example below shows an exclusion set for `Transfer abandoned` and `Internal not connected` calls.



Contents

The `Contents` tab allows you to check whether call stats are being collected by TIM Plus, and it is generally used for troubleshooting purposes.

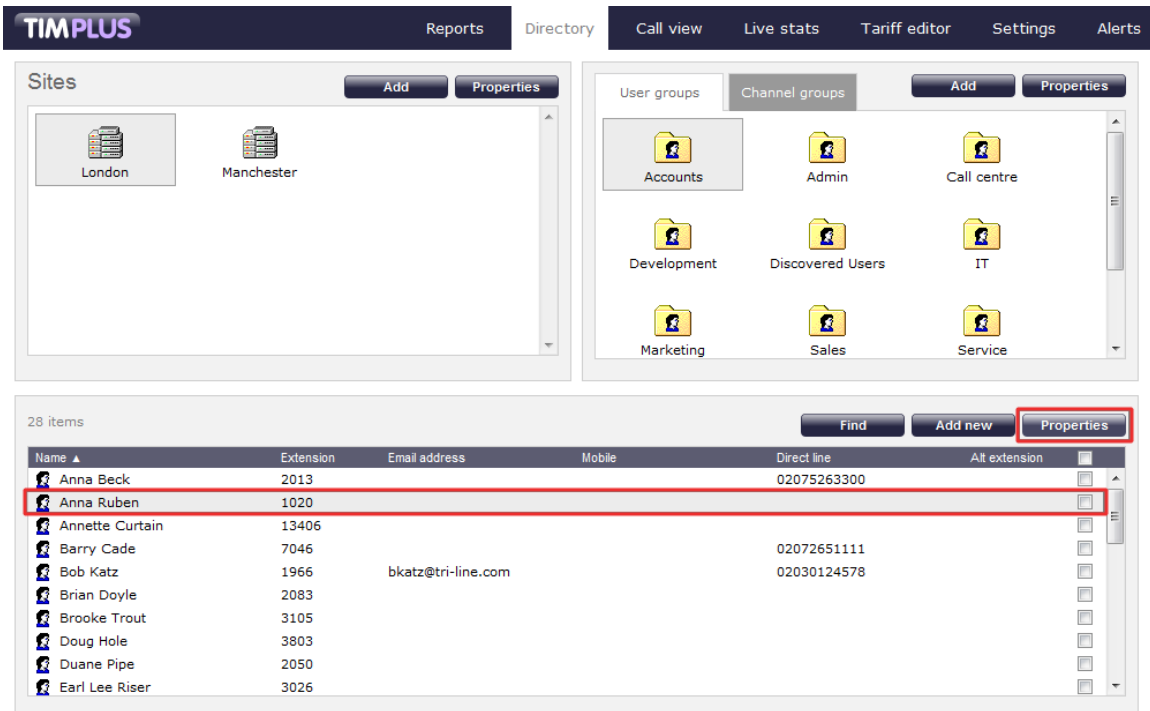


Click on the `Refresh` button to refresh the statistics on that page and verify that the stats point is collecting data. If you click on the `Reset` button, you can clear the statistics and reload them for the period that they cover, e.g. last week.

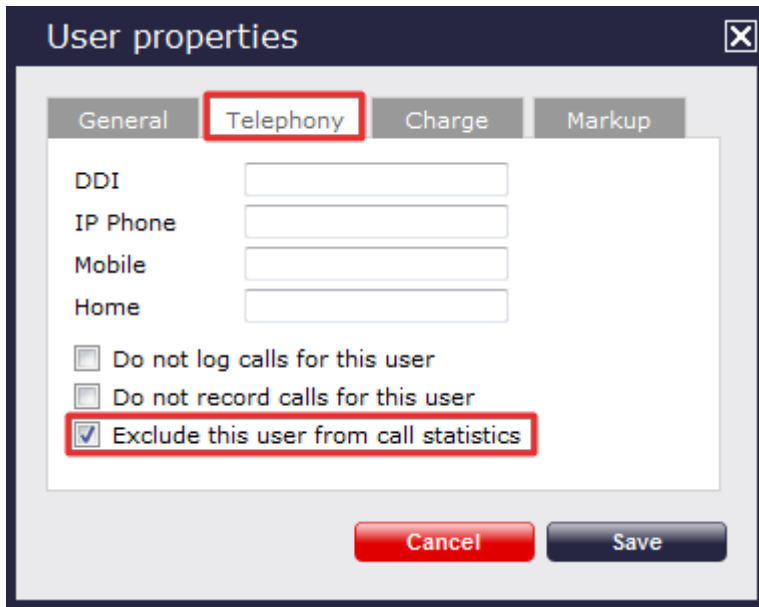
Excluding a user from a stats point

Follow the instructions below to exclude a user from a stats collection point, e.g. exclude the sales manager from the sales team stats:

1. Search the Directory to locate the user you want to exclude from your stats.
2. Select the user and click on the **Properties** tab.



3. A new window will appear. Click on the **Telephony** tab and tick the **Exclude this user from call statistics** box



4. Click on the **Save** button to apply the changes.

i To perform the steps below you need administrative privileges to be able to access the Directory and the user properties.

Deleting a stats point

To delete a stats point, select it from the `stats points` list and click on the `Properties` button at the top-right corner of the screen, as shown below:

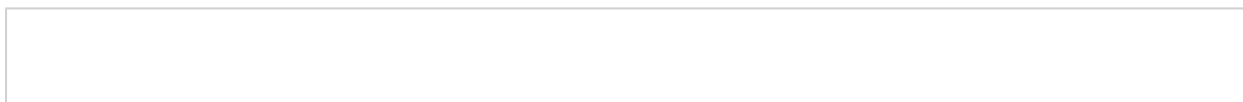
The screenshot shows the TIMPLUS interface with the 'Stats points' tab selected. A table lists various stats points. The 'London Daily Stats' row is highlighted with a red border. The 'Properties' button is highlighted in the top right corner.

Name	Subject	Covering period	Next reset	Status
All Sites Stats	User	1 day	28 March 2013 00:00:00	Loaded
All Stats	User	1 day	28 March 2013 00:00:00	Loaded
Answered	Dialled number	1 day	28 March 2013 00:00:00	Loaded
Busy Lines	Channel group	1 day	28 March 2013 03:00:00	Loaded
Call Groups	Channel	1 day	28 March 2013 11:00:00	Loaded
Channels London	Channel group	1 day	28 March 2013 03:00:00	Loaded
Daily London Service	User	1 day	28 March 2013 00:00:00	Loaded
Daily London Telesales	User	1 day	28 March 2013 00:00:00	Loaded
DailyStats	User	1 day	28 March 2013 00:00:00	Loaded
Dialled Numbers	Dialled number	1 day	28 March 2013 00:00:00	Loaded
Hourly London Sales	User	1 hour	27 March 2013 16:00:00	Loaded
London ALL	User	1 week	29 March 2013 03:33:20	Loaded
London Daily Stats	User	1 day	28 March 2013 00:00:00	Loaded
London Service weekly	User	1 week	31 March 2013 00:00:00	Loaded
London Telesales	User	1 day	28 March 2013 00:00:00	Loaded
Marketing weekly	User	1 week	01 April 2013 00:00:00	Loaded
Missed	User	1 day	28 March 2013 00:00:00	Loaded
Non-Geographic No's	Dialled number	1 month	01 April 2013 00:00:00	Loaded
Sales London	User	1 week	31 March 2013 00:00:00	Loaded
Sales Test	User	1 day	28 March 2013 00:00:00	Loaded
Service Daily London	User	1 day	28 March 2013 00:00:00	Loaded
US Daily Stats	User	1 day	28 March 2013 01:00:00	Loaded

A new window will open. Click on the `Delete` button at the bottom-left corner of the window to remove the selected stats point.

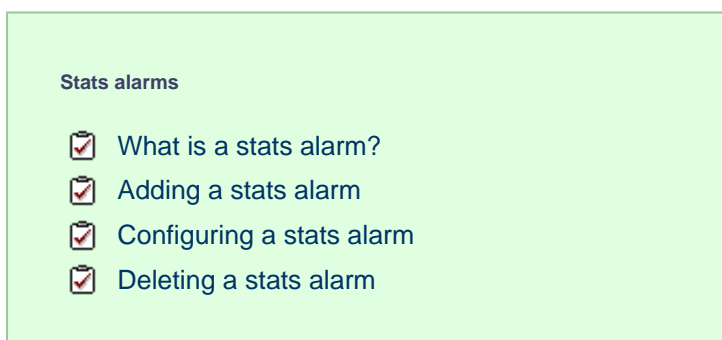
The screenshot shows the 'DailyStats' properties window. It has tabs for 'General', 'Exclusions', and 'Contents'. The 'General' tab is active, showing fields for Name, Site, Group, User, and Subject. Below these are fields for 'The statistics will reset every:' (1 days), 'Starting from:' (00:00:00 on 29 Mar 2013), and a checkbox for 'Use data from the last reset period'. At the bottom, there are buttons for 'Delete', 'Reset', 'Cancel', and 'Save'. The 'Delete' button is highlighted with a red border.

Stats point - overview video





Stats alarms



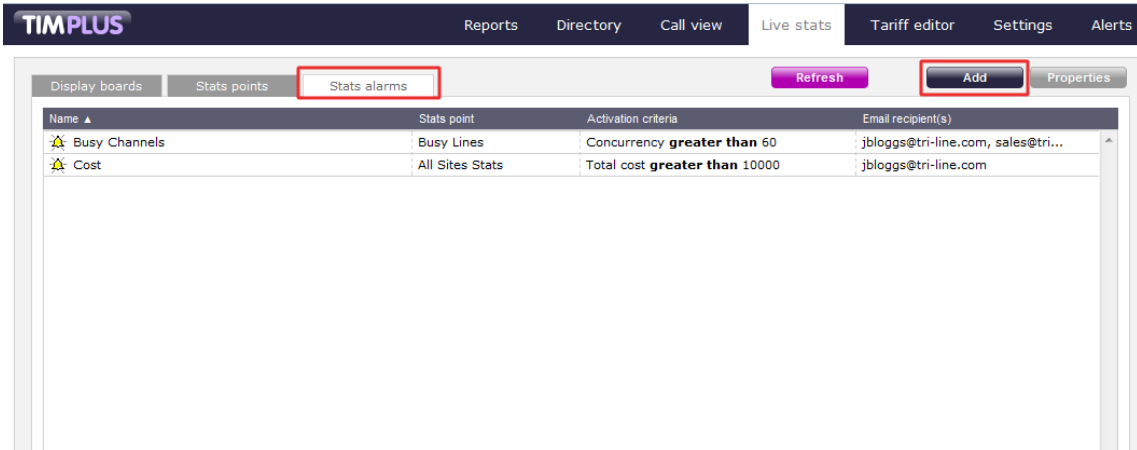
What is a stats alarm?

Stats alarms are alarms that can be added to a selected stats collection point in order to trigger an alert when calls whose properties match certain criteria have happened, such as calls above a particular duration, calls to specific phone numbers, or when user-defined cost thresholds are exceeded. The criteria that must be met to trigger an alarm is user-defined, and email alerts can be sent to one or more recipients.

Call statistics alarms are simply a variation of the standard "alarm" directory object and provide an additional means of keeping a tab on call patterns.

Adding a stats alarm

To add a stats alarm, go to the Live stats screen, select the **Stats alarms** tab and click on the **Add** button at the top-right corner of the screen, as shown below:



A new window will open, allowing you to configure the properties of your stats alarm. Each tab displayed in this window is described below:

Add new stats alarm

General | Criteria | Notification

New stats alarm

Stats Alarms watch a specific stats point in your organisation and, if one or more elements match your user-defined criteria, an email can be sent to one or more recipients.

Choose a name for the alarm and select a stats point to watch.

To select the criteria that must be met in order for the alarm to activate, click the **Criteria** tab.

To specify the recipient(s) of any alarm emails, or to customise the subject and body of the email message, click the **Notification** tab.

Name:

Stats point: **Find**

Cancel **Add**

General


The **General** tab allows you to name the alarm object and select the stats point you want the alarm to monitor.

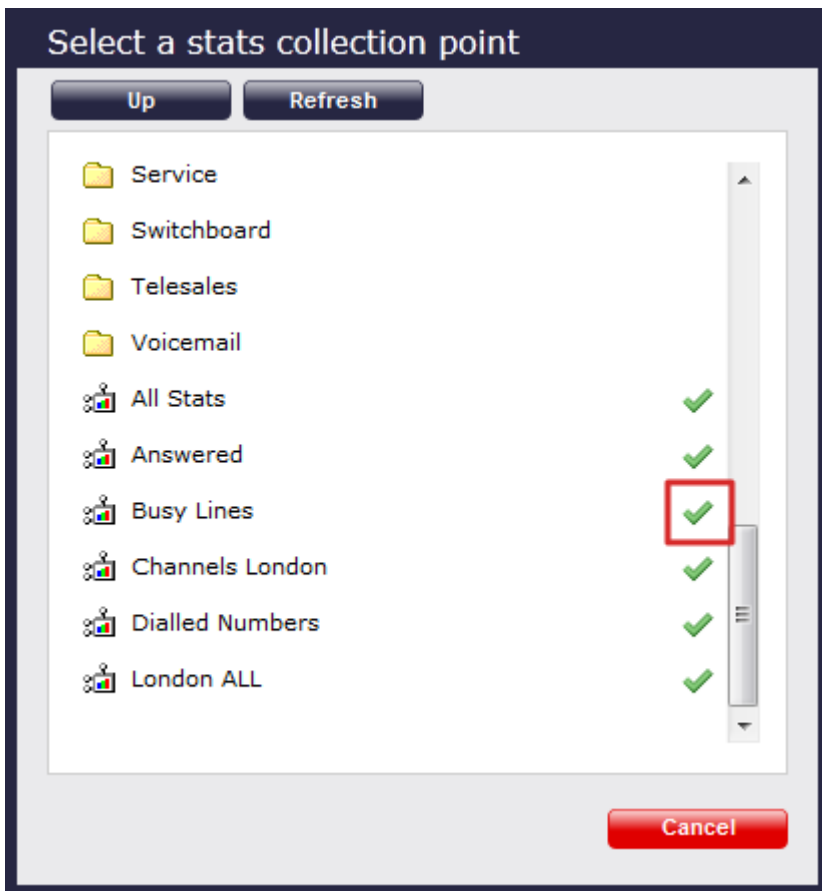
Name

Enter a name for the alarm in the text box provided, as shown below:

Name

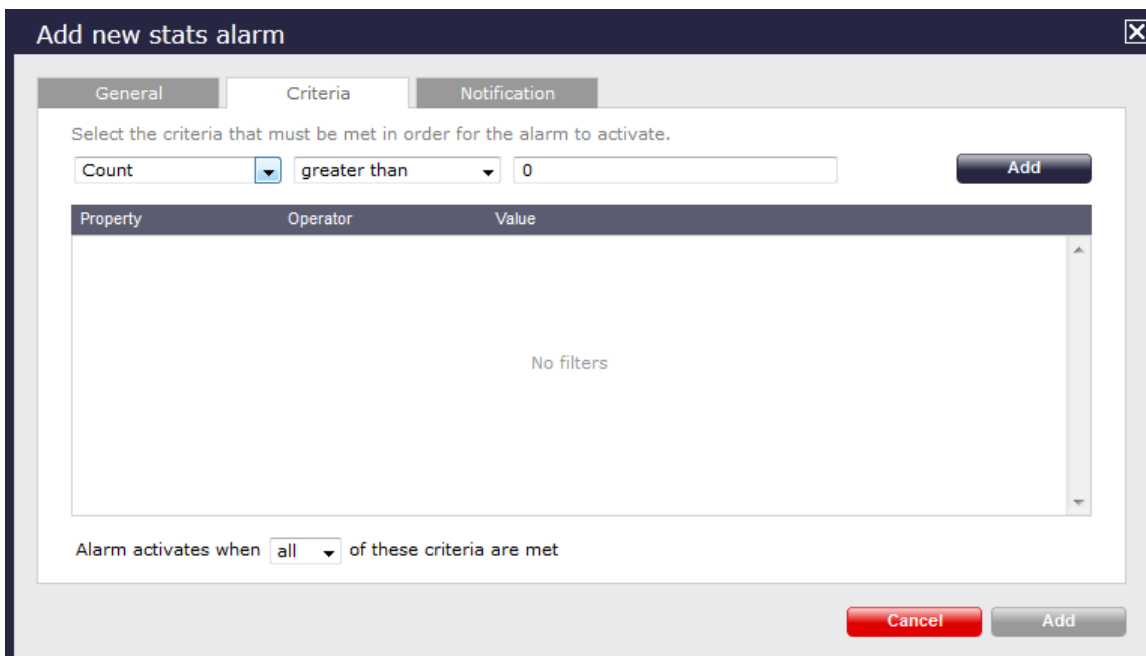
Stats point

To select the stats point you want the alarm to monitor, click on the **Find** button. A new window will open, allowing you to drill-down to the site or group level in the Directory, where the stats point object you want to use resides. To select the stats point, click on the  icon alongside it, as shown below:



Criteria

This section allows you to choose the criteria that calls must match in order to activate the alarm. The criteria available for selection are described below:



Count

The alarm will be triggered when the **call count** of the calls collected in this stats point meets, exceeds, is less than or equal to a predetermined value, e.g. when busy channels equals 10 or busy channels > 10.

Count greater than 10

Total duration

The alarm will be triggered when the **total duration**, exceeds, is less than or equal to a predetermined value, e.g. when call duration is greater than 3600 seconds (1 hour).

Total duration ▼	greater than ▼	18000
------------------	----------------	-------

Average duration

The alarm will be triggered when the **average duration** meets, exceeds, is less than or equal to a predetermined value, e.g. when average call duration is less than 1 minute.

Average duration ▼	less than ▼	60
--------------------	-------------	----

Minimum duration

The alarm will be triggered when the **minimum duration** meets, exceeds, is less than or equal to a predetermined value, e.g. when minimum duration equals 20 seconds.

Minimum duration ▼	equals ▼	20
--------------------	----------	----

Maximum duration

The alarm will be triggered when the **maximum duration** meets, exceeds, is less than or equal to a predetermined value, e.g. when maximum call duration is greater than 1 hour.

Maximum duration ▼	greater than ▼	3600
--------------------	----------------	------

Total response

The alarm will be triggered when the **total response** time exceeds, equals, is less than or is or equal to a predetermined value, e.g. total response time exceeds 30 seconds.

Total response ▼	greater than ▼	30
------------------	----------------	----

Average response

The alarm will be triggered when the **average response** time exceeds, equals, is less than or is equal to a predetermined value, e.g. average response time exceeds 20 seconds.

Average response ▼	greater than ▼	20
--------------------	----------------	----

Minimum response

The alarm will be triggered when the **minimum response** time exceeds, equals, is less than or is equal to a predetermined value, e.g. minimum response time equals 2 seconds.

Minimum response ▼	equals ▼	2
--------------------	----------	---

Maximum response

The alarm will be triggered when the **maximum response** time exceeds, equals, is less than or is equal to a pre-determined value, e.g. maximum response time exceeds 20 seconds.

Maximum response ▼	greater than ▼	20
--------------------	----------------	----

Total cost

The alarm will be triggered when the **total cost** exceeds, equals, is less than or is equal to a predetermined value, e.g. total cost exceeds £100.

Average cost

The alarm will be triggered when the **average cost** exceeds, equals, is less than or is equal to a predetermined value, e.g. average cost exceeds £2.00.

Minimum cost

The alarm will be triggered when the **minimum cost** exceeds, equals, is less than or is equal to a predetermined value, e.g. minimum cost equals £1.00.

Maximum cost

The alarm will be triggered when **maximum cost** exceeds, equals, is less than or is equal to a predetermined value, e.g. maximum cost exceeds £10.00.

Concurrency

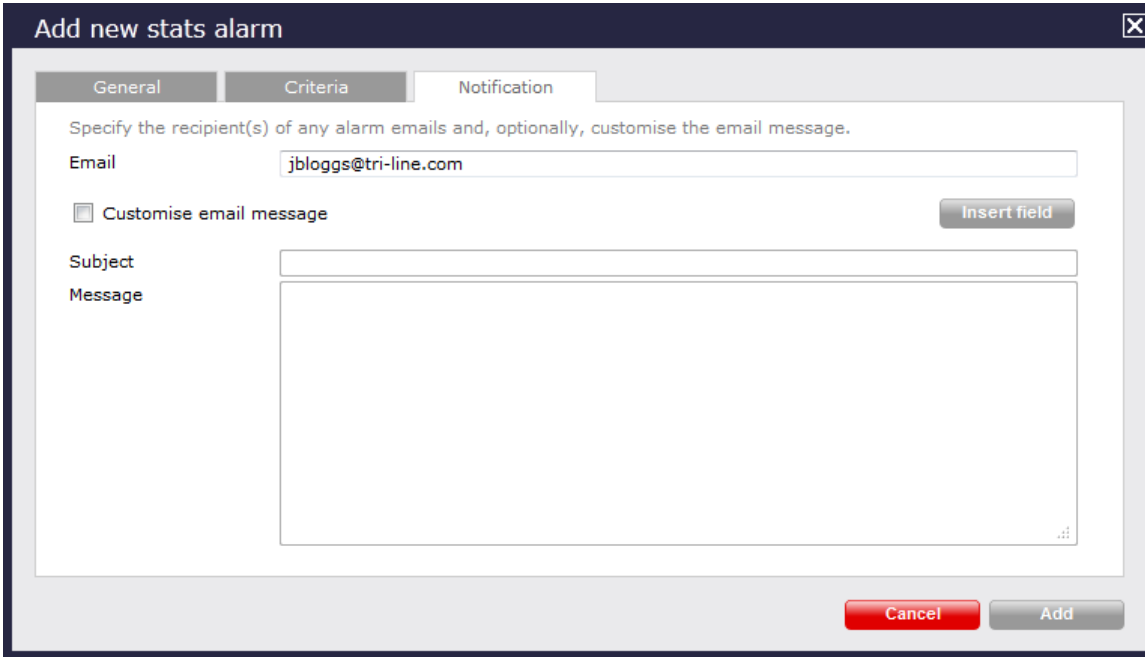
The alarm will be triggered when the **call concurrency** exceeds, equals, is less than or is equal to a predetermined value, e.g. total number of simultaneous calls exceeds 20.

Alarm activates when of these criteria are met

i When adding multiple selection criteria, you are given the option to trigger an alarm when ALL or ANY of the criteria are met.

Notification

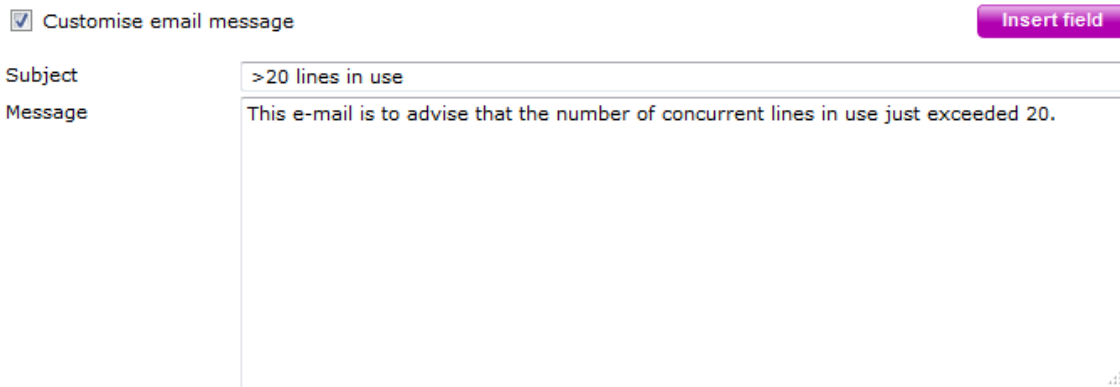
The tab allows you to set up an email alert when any of the above-mentioned alarms are triggered.



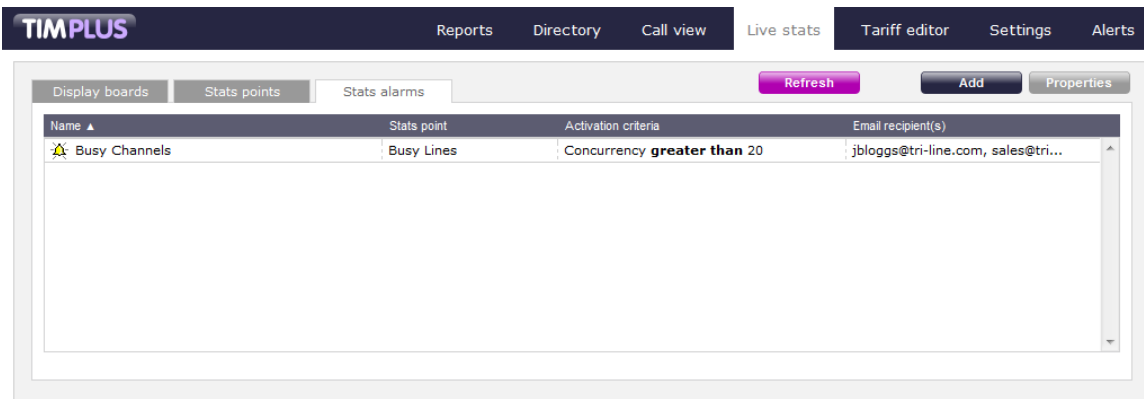
To send the notification to multiple email addresses, separate each entry with a semicolon.



You can also customise the email notification by adding a subject and/or a message in the boxes provided, as shown below:



Once you have configured all the settings, click on the **Add** button to add your alarm to the stats alarm list, as shown below:



Configuring a stats alarm

To configure a stats alarm, select it from the existing list and click on the **Properties** button at the top-right corner of the screen, as

shown below:

The screenshot shows the TIMPLUS interface with the 'Stats alarms' tab selected. A table displays the following data:

Name	Stats point	Activation criteria	Email recipient(s)
⚠ Busy Channels	Busy Lines	Concurrency greater than 60	jbloggs@tri-line.com, sales@tri...
⚠ Cost	All Sites Stats	Total cost greater than 10000	jbloggs@tri-line.com

A new window will open, where you can edit the properties of the stats alarm.

The screenshot shows the 'Busy Channels' window with the 'Criteria' tab selected. The window title is 'Busy Channels' and it has a close button. The 'Criteria' tab is active, showing the following fields:

Name: Busy Channels
Stats point: Busy Lines

Buttons: Delete, Snooze, Cancel, Save

Deleting a stats alarm

To delete a stats alarm, select it from the list and click on the **Properties** button at the top-right corner of the screen. In the new window that opens, click on the **Delete** button to remove the alarm from the system.

Busy Channels
X

General

Criteria

Notification

Update stats alarm

Choose a name for the alarm and select a stats point to watch.

To select the criteria that must be met in order for the alarm to activate, click the **Criteria** tab.

To specify the recipient(s) of any alarm emails, or to customise the subject and body of the email message, click the **Notification** tab.

Name

Stats point

Tariff editor

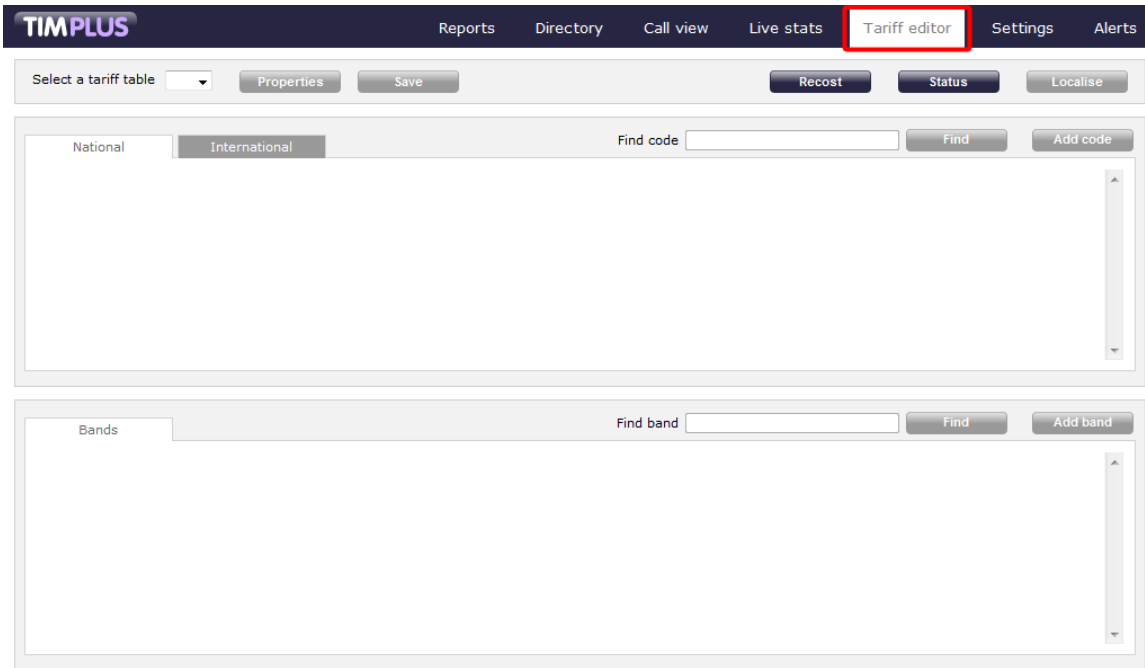
Configuring a tariff table

Configuring a tariff table

- Accessing the tariff editor
- Selecting a tariff table
- General properties
- Recosting calls
- The tariff table status
- Localising the tariff table

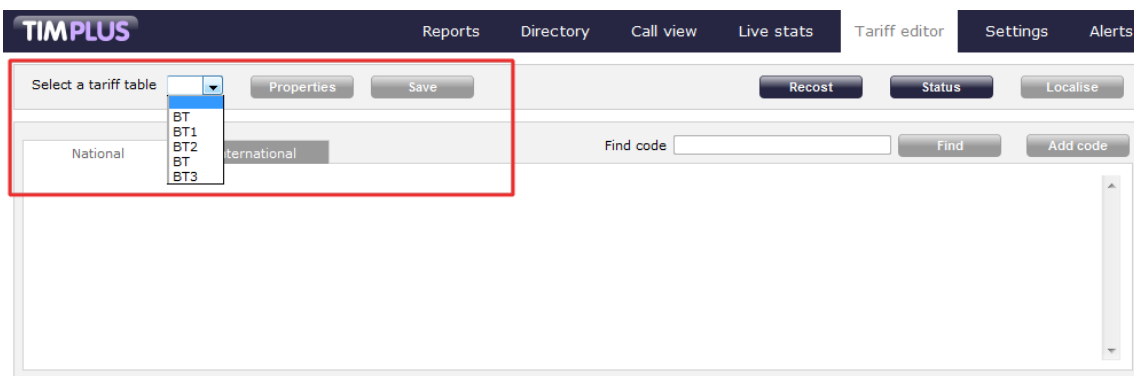
Accessing the tariff editor

To access the tariff table, click on the Tariff editor tab from the menu bar, as shown below:



Selecting a tariff table

To select a tariff table, expand the drop-down list on the left-hand side of the screen and choose from the available options, as shown below:



Once a tariff has been selected, the following screen will be displayed:

The screenshot shows the TIMPLUS Tariff editor interface. At the top, there are navigation tabs: Reports, Directory, Call view, Live stats, Tariff editor, Settings, and Alerts. Below the tabs, there's a section for 'Select a tariff table' with a dropdown menu set to 'BT' and a 'Properties' button highlighted in red. Other buttons include 'Save', 'Recost', 'Status', and 'Localise'. Below this is a table with columns for 'Code', 'Band name', 'Location', and 'Code pattern'. The table contains several rows of data for various locations like Leeds, Sheffield, Nottingham, Leicester, Bristol, Reading, Clitheroe, Bournemouth, and Bolton. Below the table is another section for 'Bands' with a 'Find band' search bar and an 'Add band' button. This section contains a detailed table with columns for 'Band name', 'Display name', 'Rate 1', 'Rate 2', 'Rate 3', 'Rate 4', 'Rate 5', 'Rateable unit', 'Min cost', 'Max cost', 'Start cost', 'Min duration', 'Connect time', 'Cap limit', 'Cap amount', 'Weekday rates', and 'Saturday rates'.

General properties

To configure the general properties of your tariff table, click on the **Properties** button, as shown below:

This screenshot is similar to the previous one, showing the TIMPLUS Tariff editor. The 'Properties' button is highlighted with a red box. The rest of the interface, including the navigation tabs and the 'Code' table, is visible but not the focus of this specific image.

A new window will open where you can configure the properties of your tariff table. Each field in this window is described in the table below:

The 'Tariff properties' dialog box is shown with the following fields and values:

- Tariff title: BT
- Minimum dialled digits: 3
- Minimum search digits: 10
- International digits: 00
- Weekday rates: 2222222211111111122222
- Saturday rates: 3333333333333333333333
- Sunday rates: 3333333333333333333333
- Rounding: Default

At the bottom of the dialog, there are 'Cancel' and 'Save' buttons.

Field name	Description
------------	-------------

<p>Tariff title</p>	<p>The name of the tariff table.</p>																																
<p>Minimum dialled digits</p>	<p>The minimum number of dialled digits required for the call to be logged.</p>																																
<p>Minimum search digits</p>	<p>The minimum number of search digits required to start allocating a charge to a call. TIM Plus starts from 10 digits and works backwards in order to find the closest tariff match.</p>																																
<p>International digits</p>	<p>The digits used to dial internationally, e.g. all international calls made from UK begin with 00.</p>																																
<p>Weekday rates</p>	<p>The weekday rates you want to apply to calls for each hour of the day. For example, in the table below rate 2 applies from midnight to 7:59 and from 18:00 to 23:59, and rate 1 applies from 8:00 to 17:59.</p> <p>Weekday rates <input type="text" value="222222221111111111222222"/></p> <p>To see the rates in more detail, click on the <input type="button" value="..."/> button to expand, as shown below:</p> <div data-bbox="716 880 1468 1171" style="border: 1px solid black; padding: 5px;"> <p>Rates by hour</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>00</td><td>01</td><td>02</td><td>03</td><td>04</td><td>05</td><td>06</td><td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td> </tr> <tr> <td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td> </tr> </table> </div>	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15																		
2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1																		
<p>Saturday rates</p>	<p>The Saturday rates you want to apply to calls for each hour of the day. For example, in the table below rate 3 applies at all times.</p> <p>Saturday rates <input type="text" value="333333333333333333333333"/></p> <p>To see the rates in more detail, click on the <input type="button" value="..."/> button to expand, as shown below:</p> <div data-bbox="716 1559 1468 1850" style="border: 1px solid black; padding: 5px;"> <p>Rates by hour</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>00</td><td>01</td><td>02</td><td>03</td><td>04</td><td>05</td><td>06</td><td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td> </tr> <tr> <td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td> </tr> </table> </div>	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15																		
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3																		

<p>Sunday rates</p>	<p>The Sunday rates you want to apply to calls for each hour of the day. For example, in the table below rate 3 applies at all times.</p> <p>Sunday rates <input type="text" value="33333333333333333333333333333333"/></p> <p>To see the rates in more detail, click on the <input type="button" value="..."/> button to expand, as shown below:</p> <div data-bbox="716 465 1468 757" style="border: 1px solid black; padding: 5px;"> <p>Rates by hour</p> <table border="1"> <tr> <td>00</td><td>01</td><td>02</td><td>03</td><td>04</td><td>05</td><td>06</td><td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td> </tr> <tr> <td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td> </tr> </table> </div>	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15																		
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3																		
<p>Rounding</p>	<p>This option allows you to select whether you want to round decimal places up or down.</p> <p>Rounding <input type="button" value="Default"/> <div data-bbox="1043 896 1225 1021" style="border: 1px solid black; padding: 2px;"> <p>Default</p> <p>Default</p> <p>Up</p> <p>Down</p> </div> </p>																																

Recosting calls

TIM Plus allows you to apply different rates to your already-logged calls, by re-running your data using a different tariff table. To recost calls, click on the **Recost** button, as shown below:

The screenshot shows the TIMPLUS web interface. At the top, there is a navigation bar with 'Reports', 'Directory', 'Call view', 'Live stats', 'Tariff editor', 'Settings', and 'Alerts'. Below this is a control bar with 'Select a tariff table' (set to 'BT'), 'Properties', 'Save', 'Recost' (highlighted with a red box), 'Status', and 'Localise' buttons. The main area displays a table with columns for 'Code', 'Band name', 'Location', and 'Code pattern'. The table contains five rows of data:

Code	Band name	Location	Code pattern
0113	UKNAT	Leeds	
0114	UKNAT	Sheffield	
0115	UKNAT	Nottingham	
0116	UKNAT	Leicester	

A new window will open, allowing you to select the tariff table and the period you want to recost calls for. If you want to recost all calls currently in the database, select the **All calls** option.

Call recosting

Select which tariff model to use:

Use current tariff regime

Use BT tariff only

Select the period of calls to recost:

All calls

Selected period only:

Start date 01 Jul 2011

End date 31 Oct 2012

Cancel
Close
Re-cost

- The recosting procedure entails removing the selected calls from the database and rerunning the data using different rates. If this procedure is interrupted, you may lose calls.

The tariff table status

When a tariff table is being updated, you are given the option to check its status, by clicking on the Status button, as shown below:

TIMPLUS

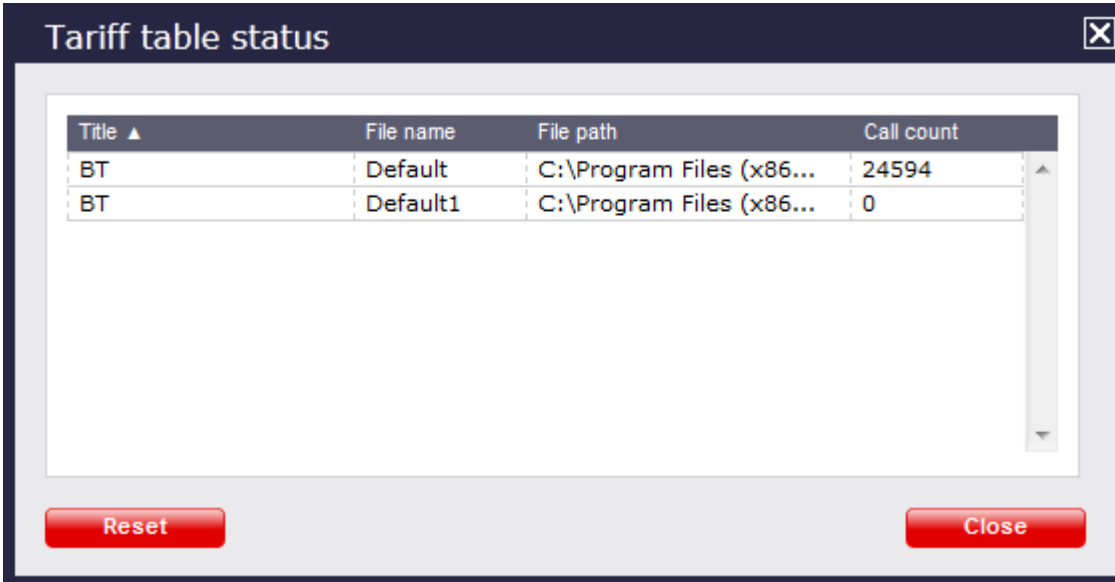
[Reports](#)
[Directory](#)
[Call view](#)
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[Settings](#)
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Select a tariff table BT
Properties Save Recost Status Localise

National International
Page 1 of 352
Find code Find Add code

Code	Band name	Location	Code pattern
0113	UKNAT	Leeds	
0114	UKNAT	Sheffield	
0115	UKNAT	Nottingham	
0116	UKNAT	Leicester	

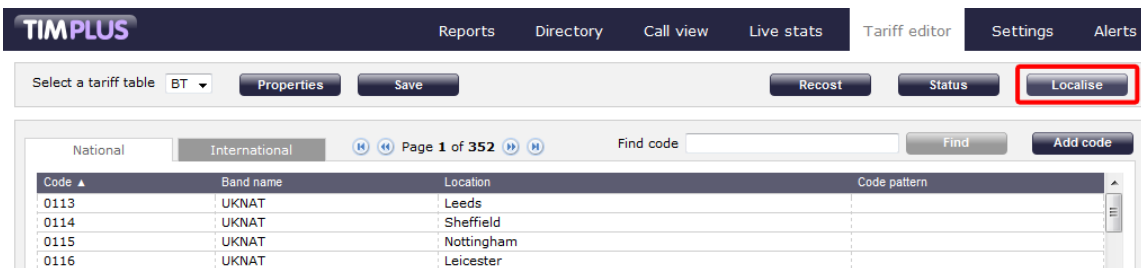
A new window will open, showing the title of the tariff table that is being updated, together with its file name and file path, as shown below:



The Call count column will show the current number of calls that have been processed under the selected tariff.

Localising the tariff table

To inform TIM Plus which calls should be treated as local by your tariff table, click on the **Localise** tab, as shown below:

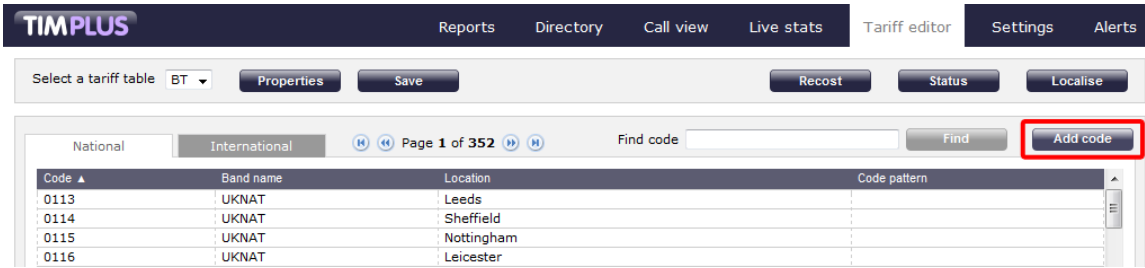


A new window will open, where you can enter your local dial code. Click on the **Check** button and the surrounding area codes will be listed automatically. Click on the **Localise** button at the bottom-right corner of the window to localise your tariff.

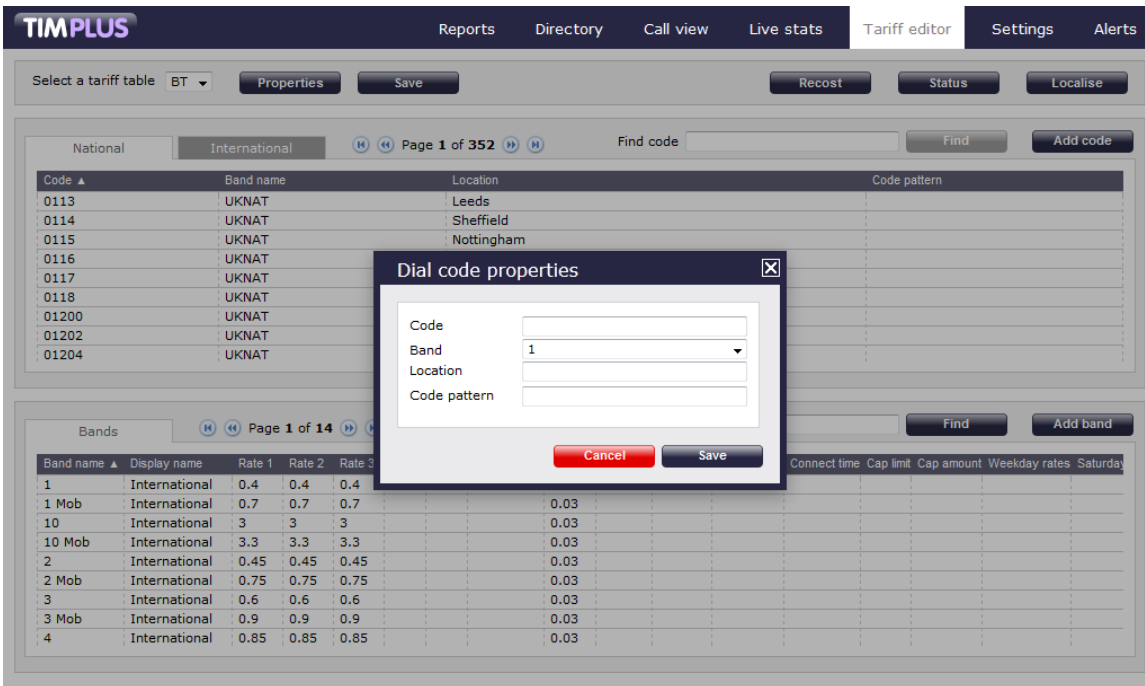


Adding a code

To add a code to the current tariff table, click on the **Add code** tab at the top-right corner of the screen, as shown below:



A new window will appear, where you can edit the properties of your dial code:



Each field in the **Dial code properties** window is described below:

Field	Description
Code	The new code you want to add to the tariff table.
Band	The charge band you want to apply to the current dial code.
Location	The geographical location you want to associate with the current dial code.
Code pattern	If your code needs to match a specific digit pattern, use the # symbol to construct the pattern and mask the necessary digits. For example, enter 020#####* for a London phone number, which indicates that the number must start with 020 and to be followed by at least eight digits in order to be valid.

When you have finished configuring these properties, click on the **Save** button to apply the changes.

Dial code properties ✕

Code	<input type="text" value="0203"/>
Band	<input type="text" value="LOCAL"/>
Location	<input type="text" value="London"/>
Code pattern	<input type="text"/>

Finding a code or location

Search for a dial code

To locate a dial code in the tariff table, enter it in the search box provided, as shown below:

TIMPLUS

[Reports](#)
[Directory](#)
[Call view](#)
[Live stats](#)
[Tariff editor](#)
[Settings](#)
[Alerts](#)

Select a tariff table BT

National International
Page 1 of 352
Find code 0161

Code	Band name	Location	Code pattern
0113	UKNAT	Leeds	
0114	UKNAT	Sheffield	
0115	UKNAT	Nottingham	
0116	UKNAT	Leicester	
0117	UKNAT	Bristol	

The dial code and its matching destination will show highlighted in grey, as shown below:

TIMPLUS

[Reports](#)
[Directory](#)
[Call view](#)
[Live stats](#)
[Tariff editor](#)
[Settings](#)
[Alerts](#)

Select a tariff table BT

National International
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Find code

01609	UKNAT	Northallerton	
0161	UKNAT	Manchester	
01620	UKNAT	North Berwick	
01621	UKNAT	Maldon	
01622	UKNAT	Maidstone	
01623	UKNAT	Mansfield	
01624	UKNAT	Isle of Man	
01625	UKNAT	Macclesfield	
01626	UKNAT	Newton Abbot	
01628	UKNAT	Maidenhead	

Search for a location

To search for a location in the tariff table, enter its name in the search box. The results will show all locations containing that name. In the example below the search word was **Ches**ter:

The screenshot shows the TIMPLUS interface with a search results dialog box open. The dialog box displays the following results:

Code	Location
01244	Chester
01246	Chesterfield

The background interface shows a list of bands and a search bar. The search bar contains the text "0124*".

Search for a partial code or location

To search for a name or number that is contained in a string, use * character before or after the number or name you have entered. In the example below, the string *ford was entered:

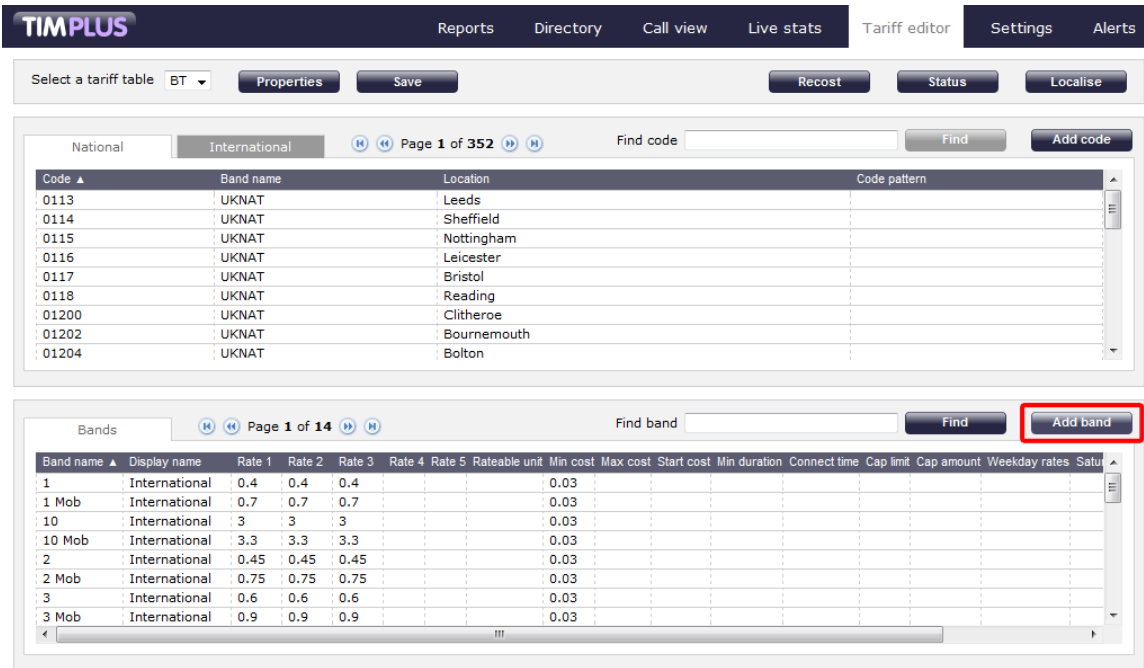
The screenshot shows the TIMPLUS interface with a search results dialog box open. The dialog box displays the following results:

Code	Location
01233	Ashford
01234	Bedford
01237	Bideford
01245	Chelmsford
01258	Blandford
01269	Ammanford
01274	Bradford
01279	Bishops Stortford
01322	Dartford
01432	Hereford
01471	Isle of Skye - Broadford
01483	Guildford
01488	Hungerford
01529	Sleaford
01565	Knutsford
01708	Romford
01777	Retford

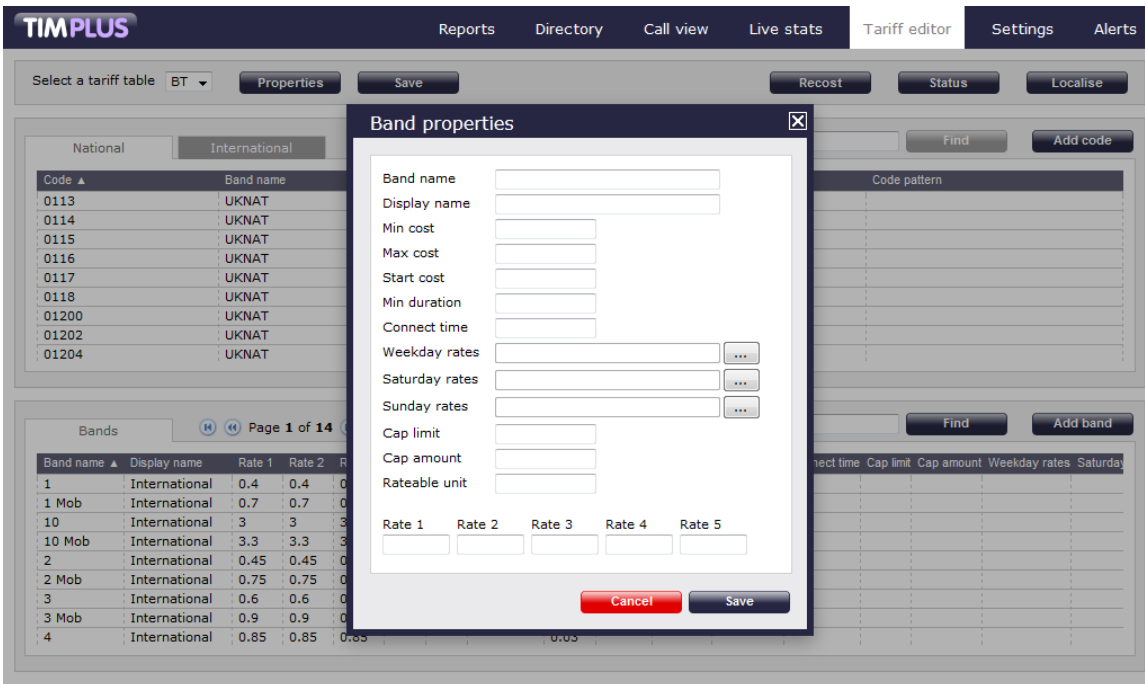
The background interface shows a list of bands and a search bar. The search bar contains the text "*ford".

Adding a band

To add a new band to the current tariff table, click on the **Add band** tab, as shown below:



A new window will appear, where you can edit the properties of your band:



Each field in the Band properties window is described below:

Field	Description
Band name	The name of the band
Display name	The band name displayed in the call view or reports
Min cost	The minimum cost of a call, regardless of whether the call totals less at the defined rate
Max cost	The maximum cost a call can reach, regardless of whether the call totals more at the defined rate
Start cost	The starting cost of a call, regardless of its duration

Min duration	The number of seconds a call must last in order to be chargeable
Connect time	A fixed period of time that is added to each call's duration
Weekday rates	The call rates during weekdays
Saturday rates	The call rates during Saturdays
Sunday rates	The call rates during Sundays
Cap limit	The maximum duration (in seconds) you want to restrict certain calls to
Cap amount	The maximum charge for a call to a particular number
Rateable unit	The unit of time (in seconds) that a call's duration is divided into, when used as a multiplier to determine the cost of a call. By default, the rateable unit in TIM Plus is 1 - per second - but could be changed to 60 to enable per minute billing, for example.

When you have finished configuring these properties, click on the **Save** button to apply the changes.

Band properties [X]

Band name: UKNAT

Display name: National

Min cost: 0.03

Max cost: []

Start cost: []

Min duration: []

Connect time: []

Weekday rates: [] ...

Saturday rates: [] ...

Sunday rates: [] ...

Cap limit: []

Cap amount: []

Rateable unit: []

Rate 1: 1.0 Rate 2: 1.0 Rate 3: 1.0 Rate 4: [] Rate 5: []

[Delete] [Cancel] [Save]

Finding a band

To locate a band in the tariff table, enter its name in the search box and click on the **Find** button, as shown below:

The screenshot shows the TIMPLUS interface with the search bar containing 'UKNAT' and the 'Find' button highlighted in red. Below the search bar, a table of bands is displayed, with the 'UKNAT' band highlighted in grey.

Code	Band name	Location	Code pattern
0113	UKNAT	Leeds	
0114	UKNAT	Sheffield	
0115	UKNAT	Nottingham	
0116	UKNAT	Leicester	
0117	UKNAT	Bristol	
0118	UKNAT	Reading	
01200	UKNAT	Clitheroe	
01202	UKNAT	Bournemouth	
01204	UKNAT	Bolton	

The matching band will show highlighted in grey, as shown below:

The screenshot shows the search results for 'UKNAT'. The 'UKNAT' band is highlighted in grey in the table below the search bar.

Band name	Display name	Rate 1	Rate 2	Rate 3	Rate 4	Rate 5	Rateable unit	Min cost	Max cost	Start cost	Min duration	Connect time	Cap limit	Cap amount	Weekday rates	Saturday rates	Sunday rates
1	International	0.4	0.4	0.4				0.03									
1 Mob	International	0.7	0.7	0.7				0.03									
10	International	3	3	3				0.03									
10 Mob	International	3.3	3.3	3.3				0.03									
2	International	0.45	0.45	0.45				0.03									
2 Mob	International	0.75	0.75	0.75				0.03									
3	International	0.6	0.6	0.6				0.03									
3 Mob	International	0.9	0.9	0.9				0.03									
Nat NTS	National	0.0673	0.0336	0.0127				0.03									
Navitas	International	1.5	1.5	1.5													
Non-Emergency	Other	0.085	0.085	0.085				0.03									
Thuraya	International	4.5	4.5	4.5				1.5									
Timeline	Other							0.425	0.425								
UKNAT	National	0.1	0.06	0.03				0.03									
Unknown	National																
Vision	International	0.5	0.5	0.5													
Voxbone	International	0.5	0.5	0.5													

To configure the properties of the selected band, click on it to open the **Band properties** window, as shown below:

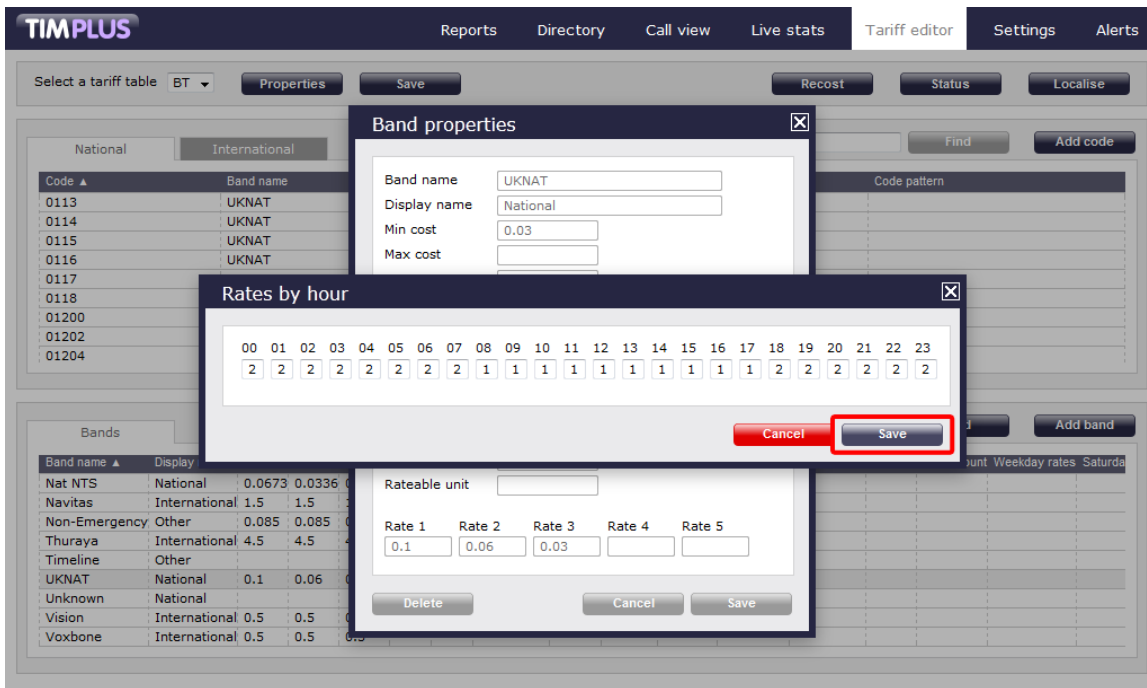
The screenshot shows the 'Band properties' window for the 'UKNAT' band. The window displays fields for Band name, Display name, Min cost, Max cost, Start cost, Min duration, Connect time, Weekday rates, Saturday rates, Sunday rates, Cap limit, Cap amount, Rateable unit, and Rate 1 through Rate 5.

Band name	Display name	Min cost	Max cost	Start cost	Min duration	Connect time	Weekday rates	Saturday rates	Sunday rates	Cap limit	Cap amount	Rateable unit	Rate 1	Rate 2	Rate 3	Rate 4	Rate 5
UKNAT	National	0.03											0.1	0.06	0.03		

To see the applied rates, click on the **...** button, as shown below:

Weekday rates
 Saturday rates
 Sunday rates
 Cap limit
 Cap amount
 Rateable unit

A new window will open, where you can update the current rates. To apply any changes, click on the **Save** button.



Settings

Web users

Web users overview

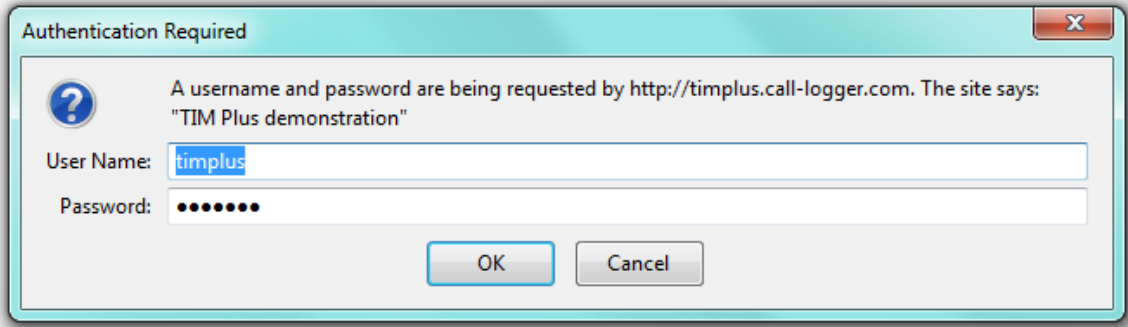
Web users overview

- What is a web user?
- Adding a web user
- Deleting a web user

What is a web user?

When accessing TIM Plus you are required to enter a username and password in the web browser, which form a login credential known as w

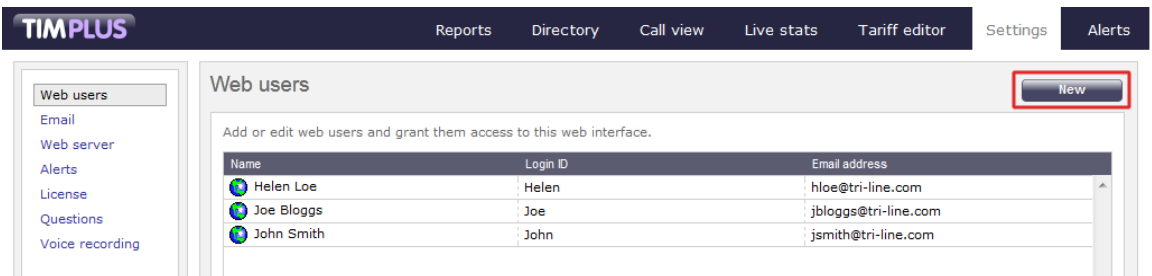
eb user. The login account for each user can be restricted to a specific site or user group, allowing you to have full control over their Directory privileges.



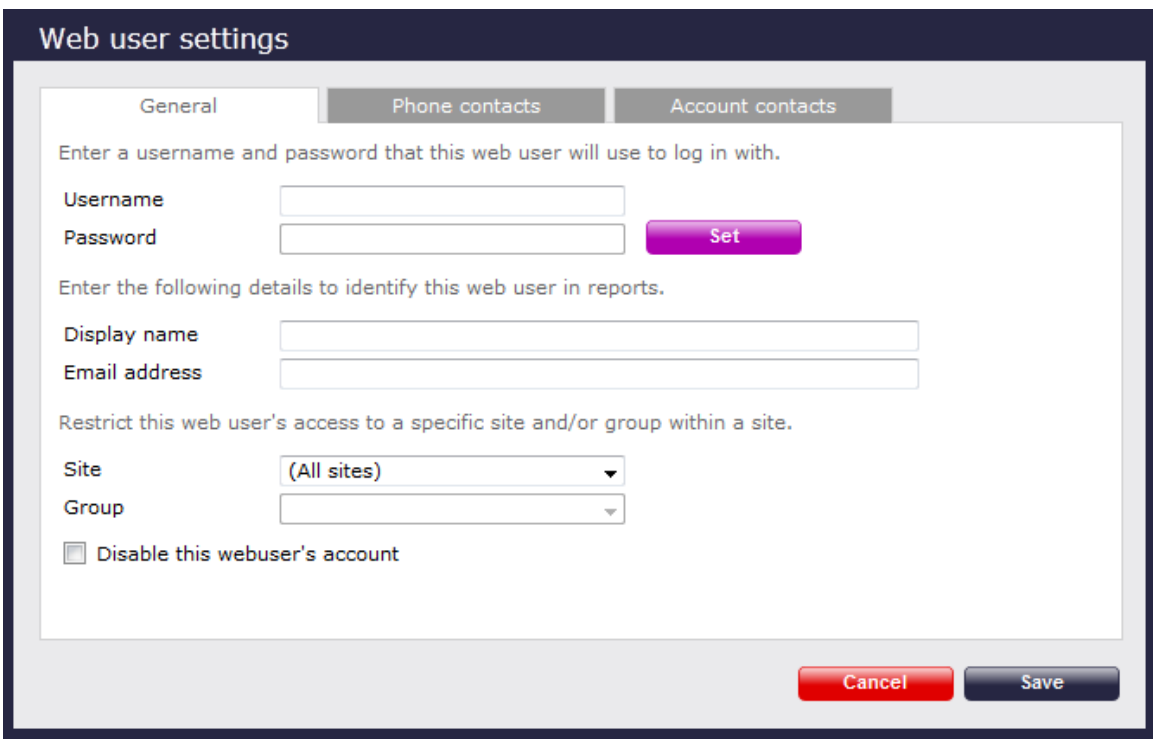
i There is no limit on the amount of web users you are allowed to create in the system.

Adding a web user

To add a new web user, click on the **New** button, as shown below:

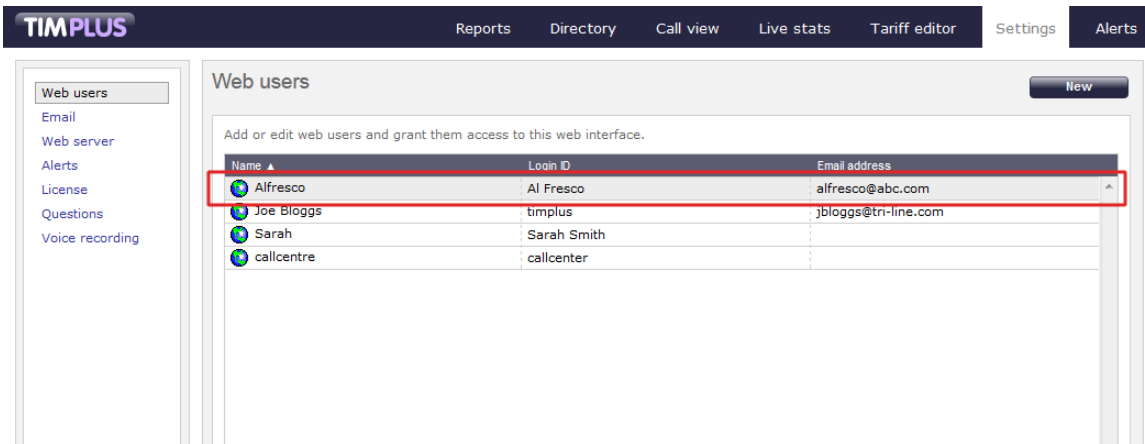


A new window will open, allowing you to **configure the properties** of the web user. When you have entered all the details, click on the **Save** button to apply the changes.

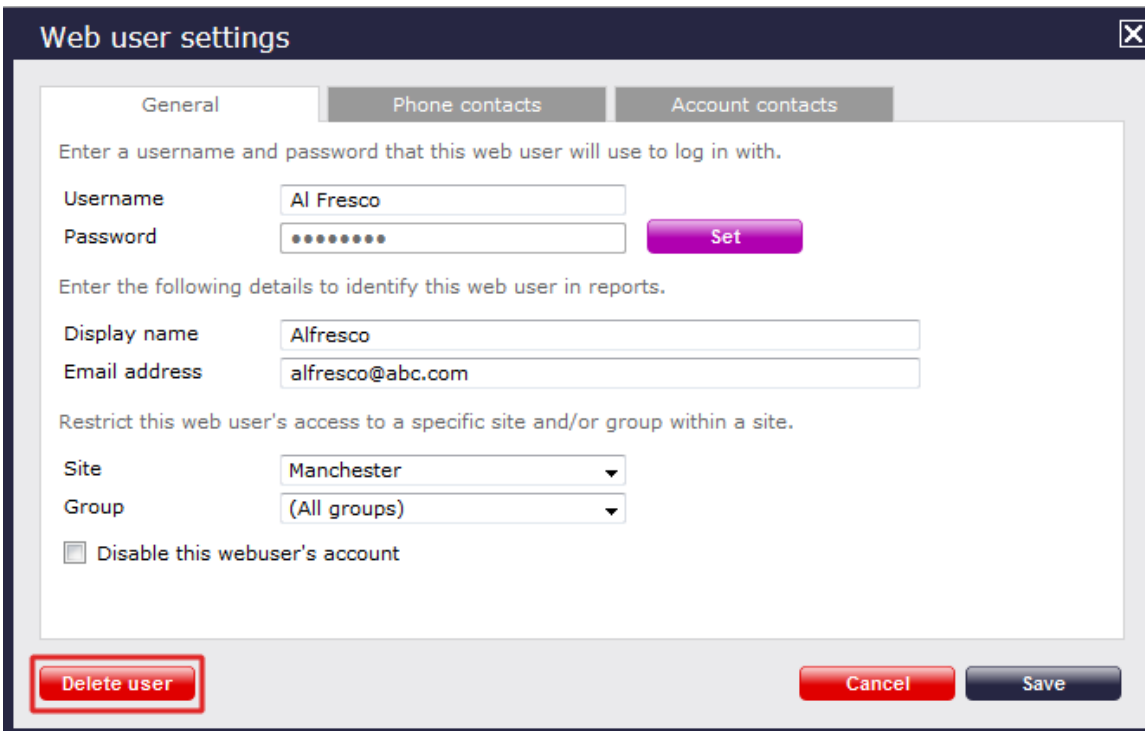


Deleting a web user

To delete a web user from the system, select it from the `Web users` list, as shown below:



The `Web users settings` window will appear. Click on the `Delete` button at the bottom-left corner of the window to remove the web user from the system:



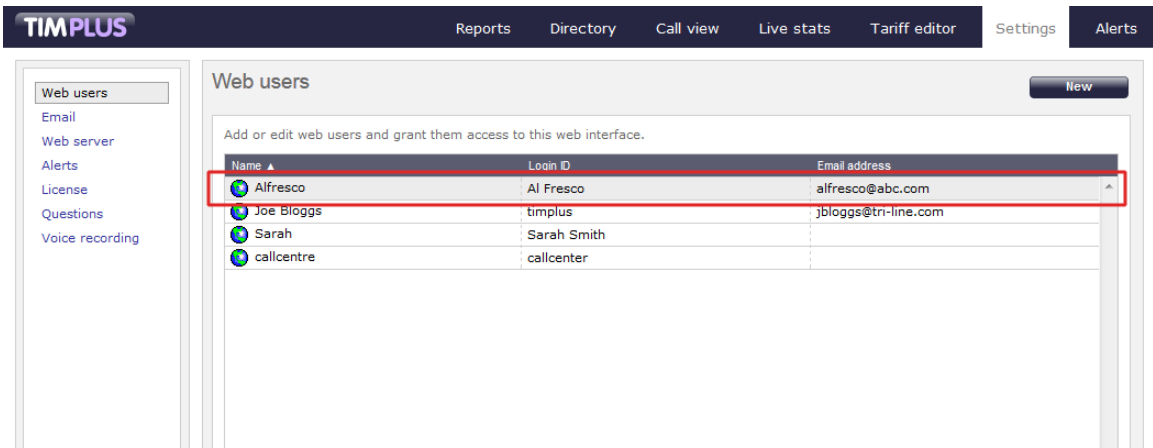
Configuring a web user

Configuring a web user

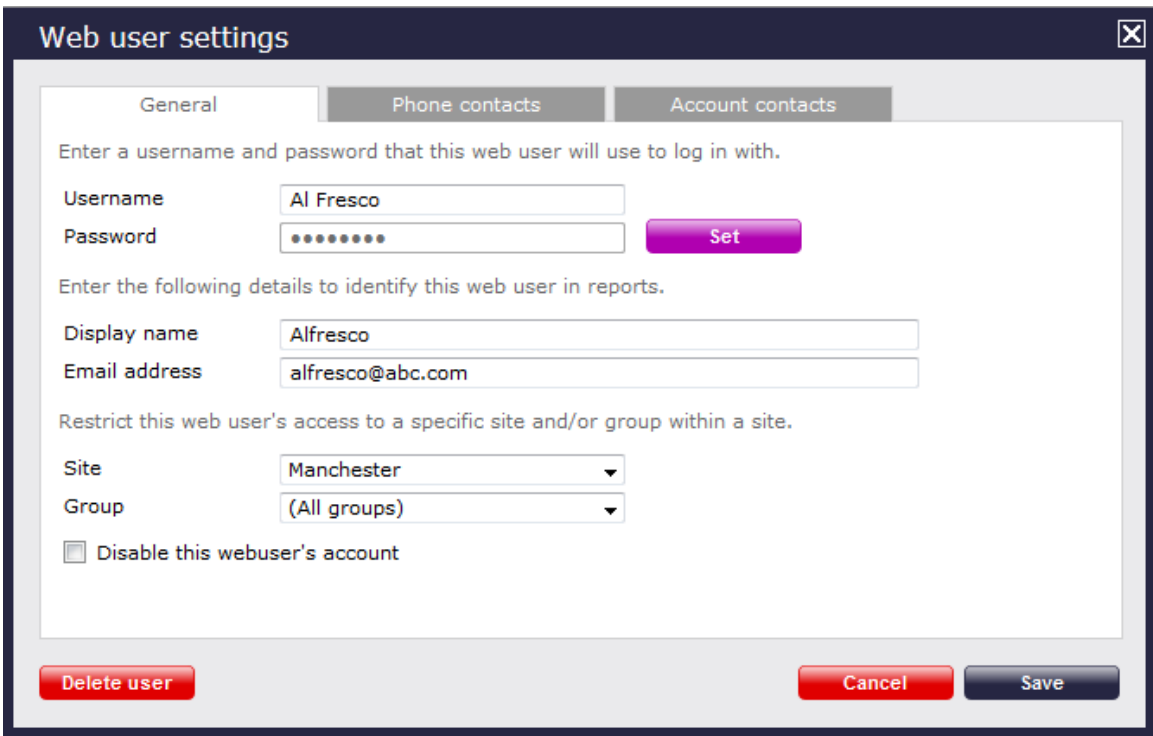
- Overview
- General properties
- Phone contacts
- Account contacts

Overview

To configure the properties of a web user, select it from the **web users** list, as shown below:



A new window will open, where you can configure the properties of the selected web user.



Each tab in this window is described below:

General properties

The **General** tab allows you to configure the login credentials of the currently-selected web user and apply any directory restrictions, if required.

Configuring a web user's credentials

Field	Description
Username	The username the web user will use to log in with
Password	The password the web user will use to log in with
Display name	The name you want the web user to be identified in the reports
Email address	The email address of the web user; this can also be used when scheduling reports

Configuring a web user's Directory access

TIM Plus allows you to restrict a web user's access to specific parts of the Directory. To apply any restrictions, select from the drop-down list the site and group you want to allow the web user to access. If you select **All sites**, the web user will be able to access all parts of the Directory.

Web user settings ✕

General
Phone contacts
Account contacts

Enter a username and password that this web user will use to log in with.

Username

Password Set

Enter the following details to identify this web user in reports.

Display name

Email address

Restrict this web user's access to a specific site and/or group within a site.

Site

Group

Disable this webuser's account

Delete user
Cancel
Save

Field	Description
Site	The site to which the web user will be allowed access. If you don't want to restrict the current web user to a specific site, select All sites .
Group	The user group - within the previously selected site - to which the web user will be allowed access. If you don't want to restrict the current web user to a specific group, select All groups .

Phone contacts

The Phone contacts tab allows you to add a list of contacts to each individual web user, replacing phone numbers with friendly names wherever they feature throughout the system, e.g. in reports, display boards, etc.

Adding phone contacts manually

To manually add a phone contact to the currently-selected web user, enter the telephone number and the name you want to associate with it, then click on the Add button, as shown below:

Web user settings [X]

General | **Phone contacts** | Account contacts

Replace phone numbers with friendly names wherever they feature throughout the system.
(For example, in reports, display boards, etc.)

Number Name **Add** **Search**

Page 1 of 1

Phone number ▲	Name
No contacts	

Import **Cancel** **Save**

To add a range of DDI numbers, enter the first part of the phone number only, and use ** as a wild character, e.g. enter `020726526**` for Tri-line's DDIs.

Importing phone contacts

To automatically import phone contacts in the system from an existing list, arrange your data in CSV format comprising of two columns separated by a common delimiter, such as comma, dash, semicolon, tab or space.

Click on the **Import** button and paste the CSV list in the box provided, then click on the **Next** button.

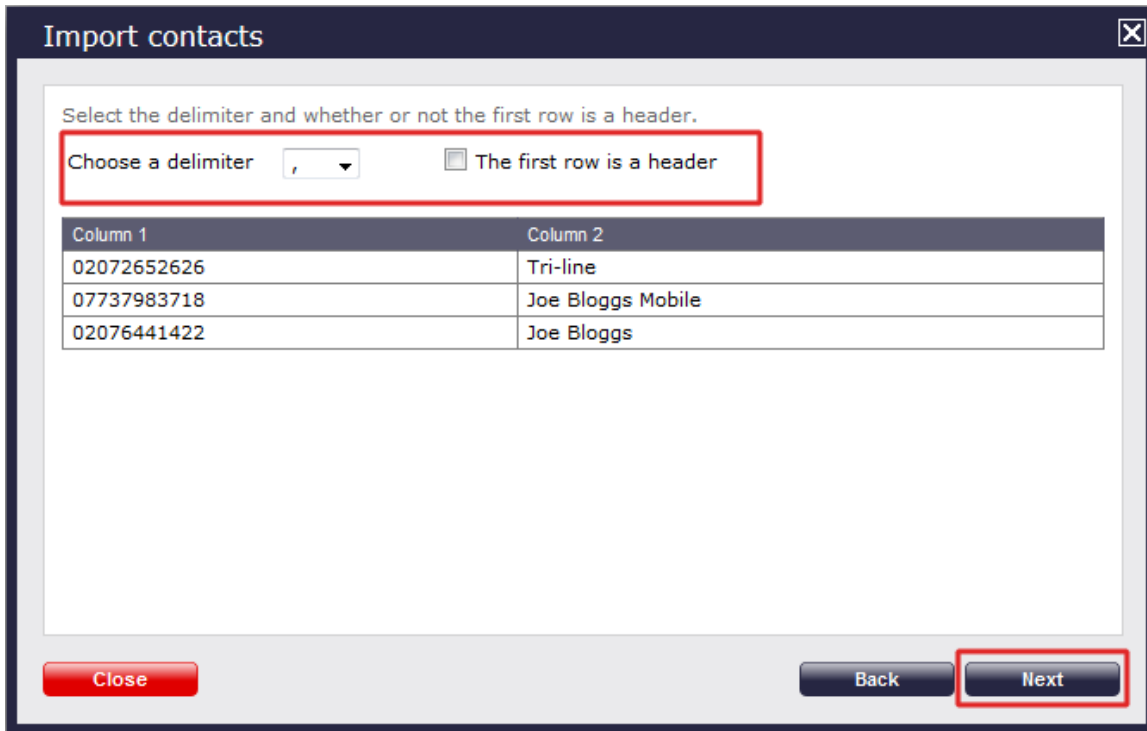
Import contacts [X]

Paste your CSV data into the box below:

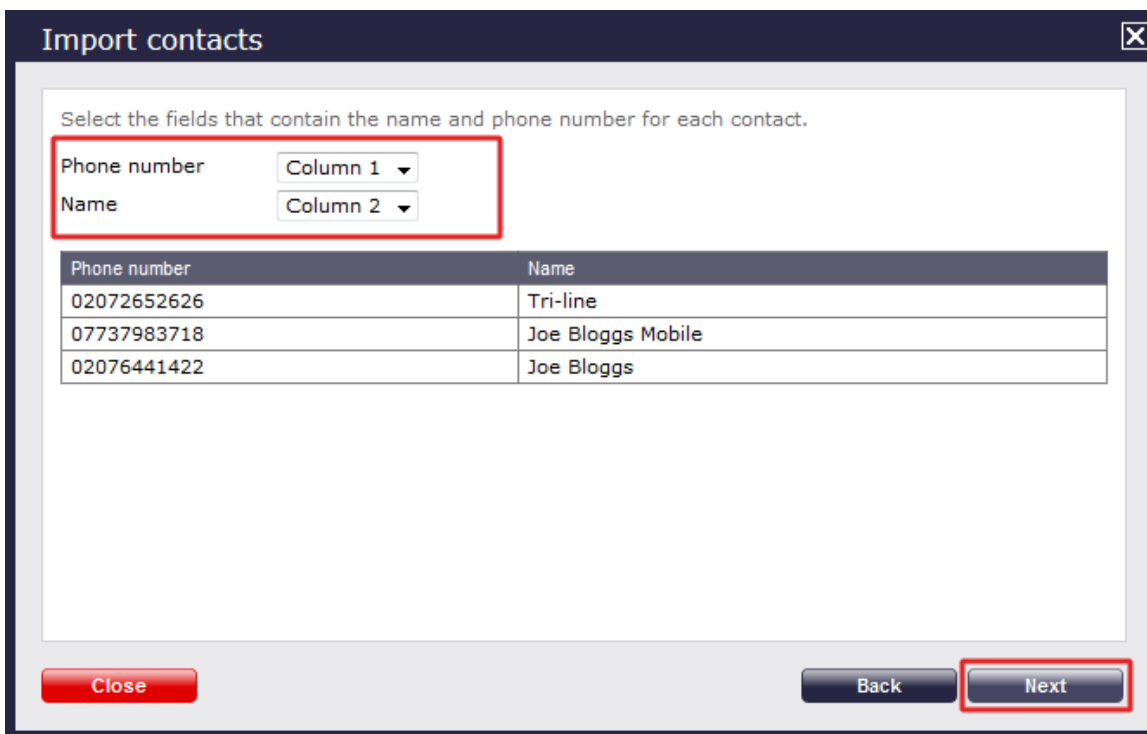
```
02072652626,Tri-line
07737983718,Joe Bloggs Mobile
02076441422,Joe Bloggs
```

Close **Back** **Next**

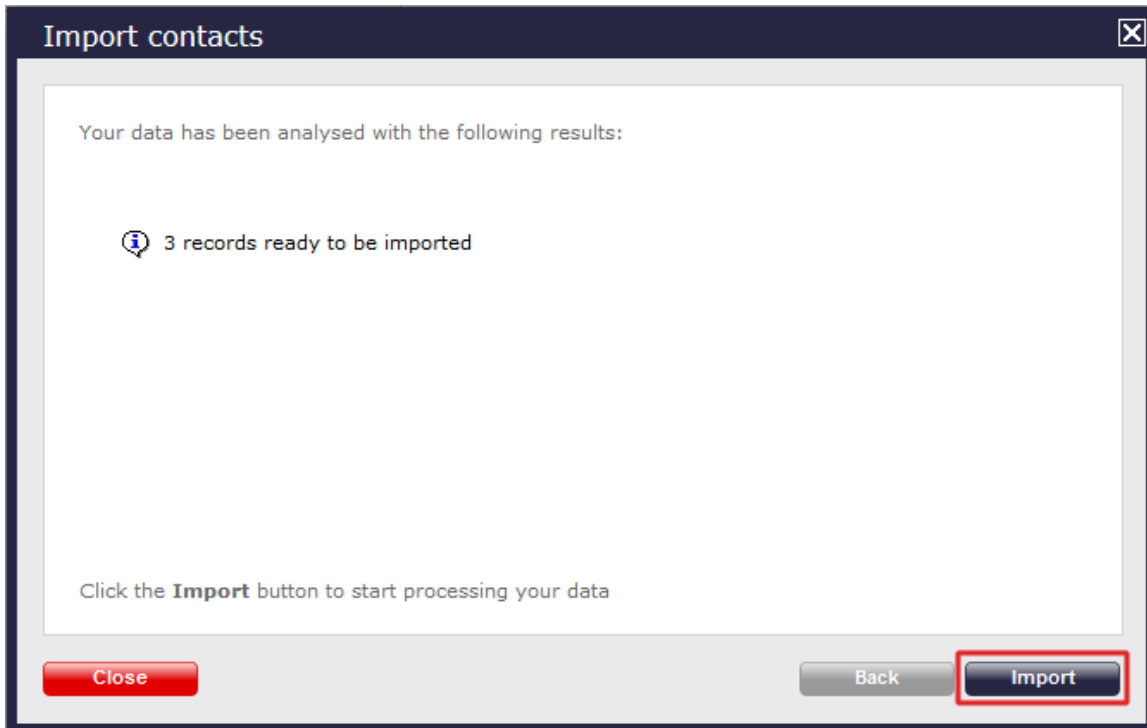
Choose from the drop-down list the delimiter you want to use to separate the two columns, and whether you want to use the first row as a header:



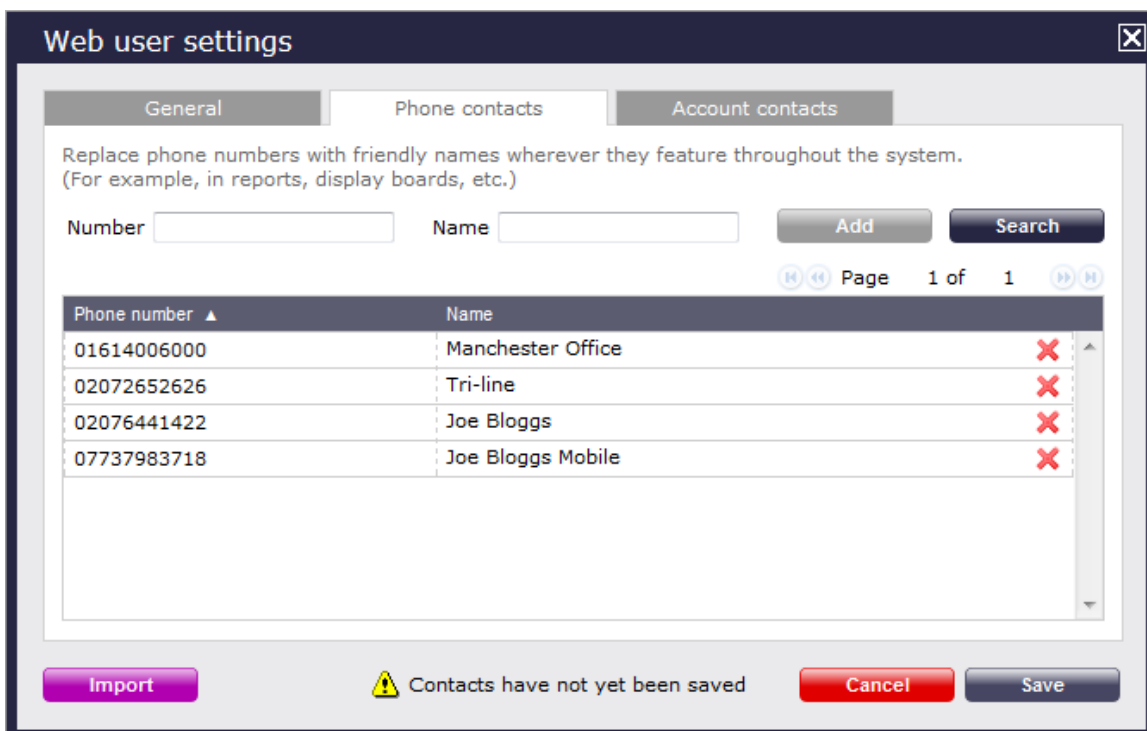
Select the column you want to use for the name and phone number information, then click on the Next button, as shown below:



The system will analyse your data and will return the number of phone contacts ready to be imported:

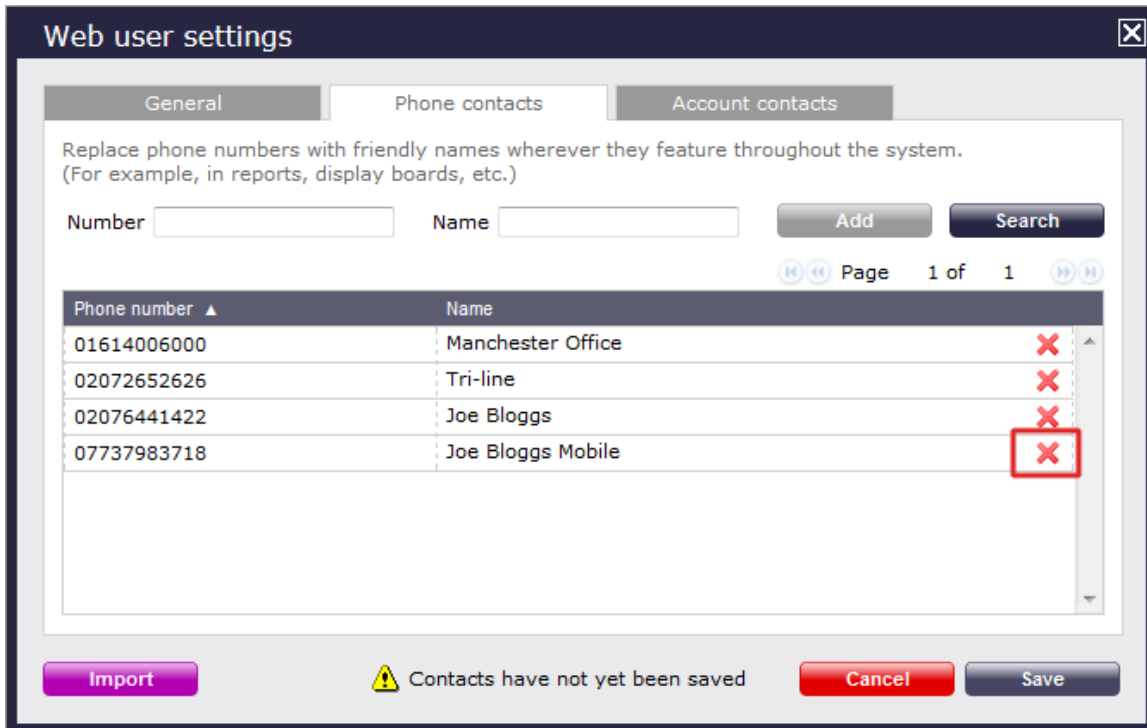


Click on the **Import** button to automatically import the contacts in the system, as shown below:



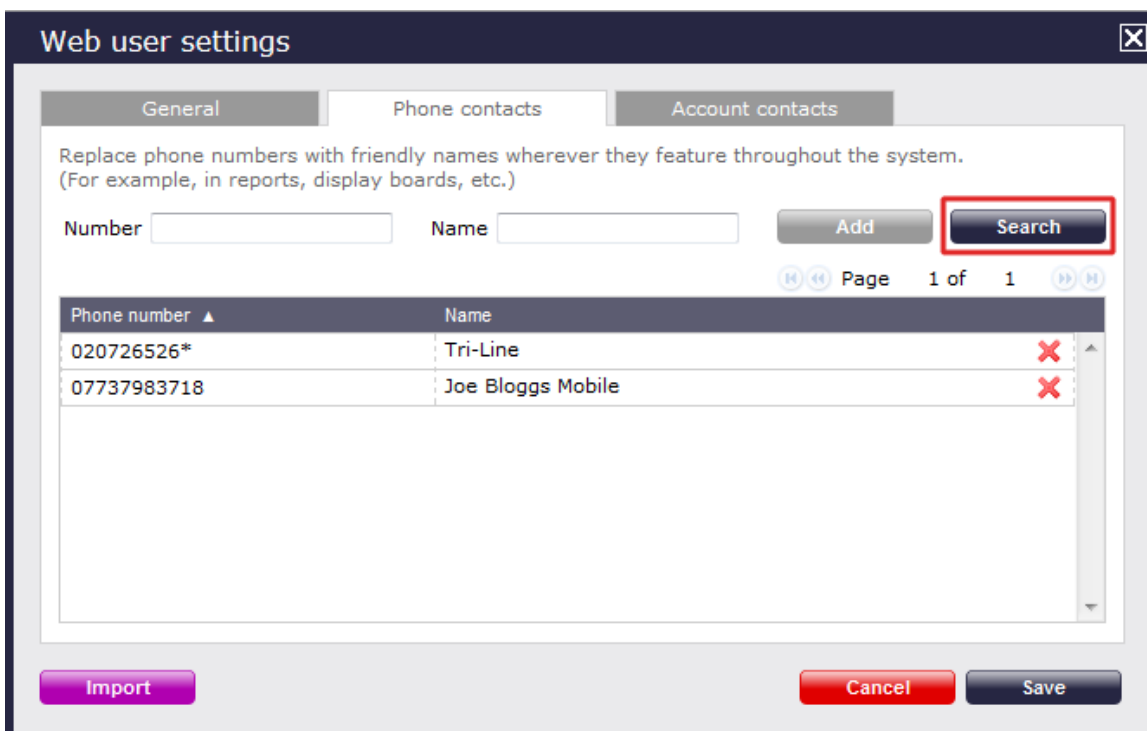
Deleting a phone contact

If you no longer want a name associated with a particular phone number, click on the **X** icon alongside it to delete it, as shown below:

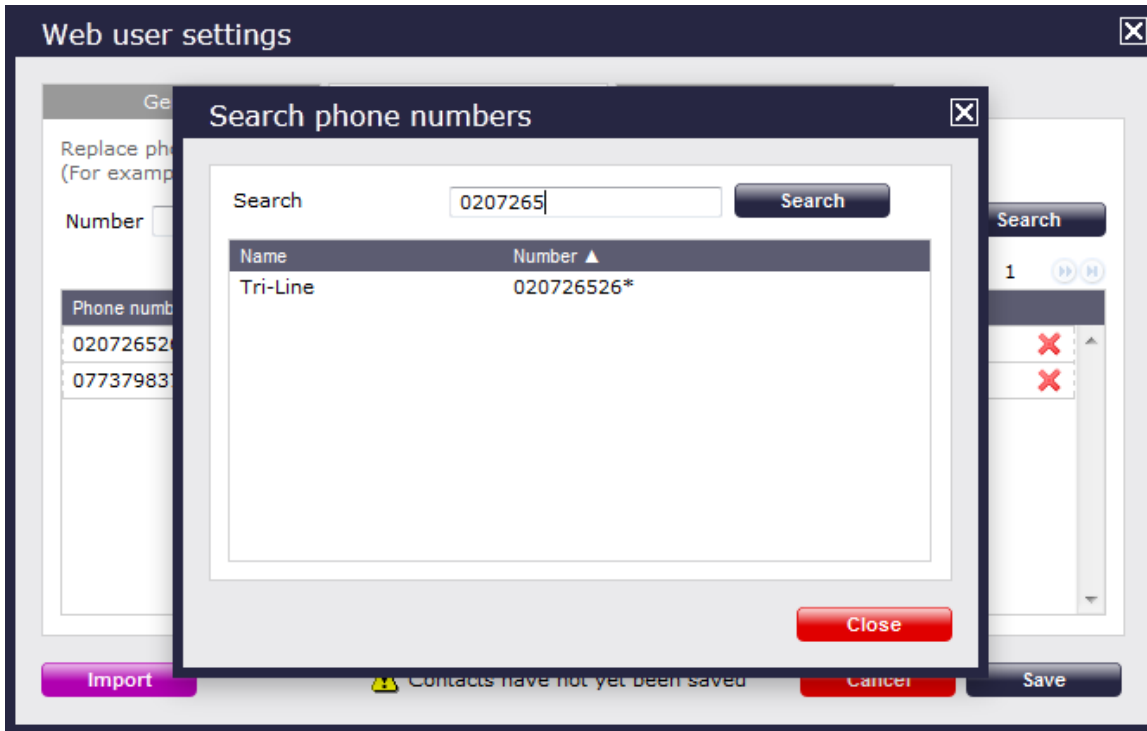


Searching for a phone contact

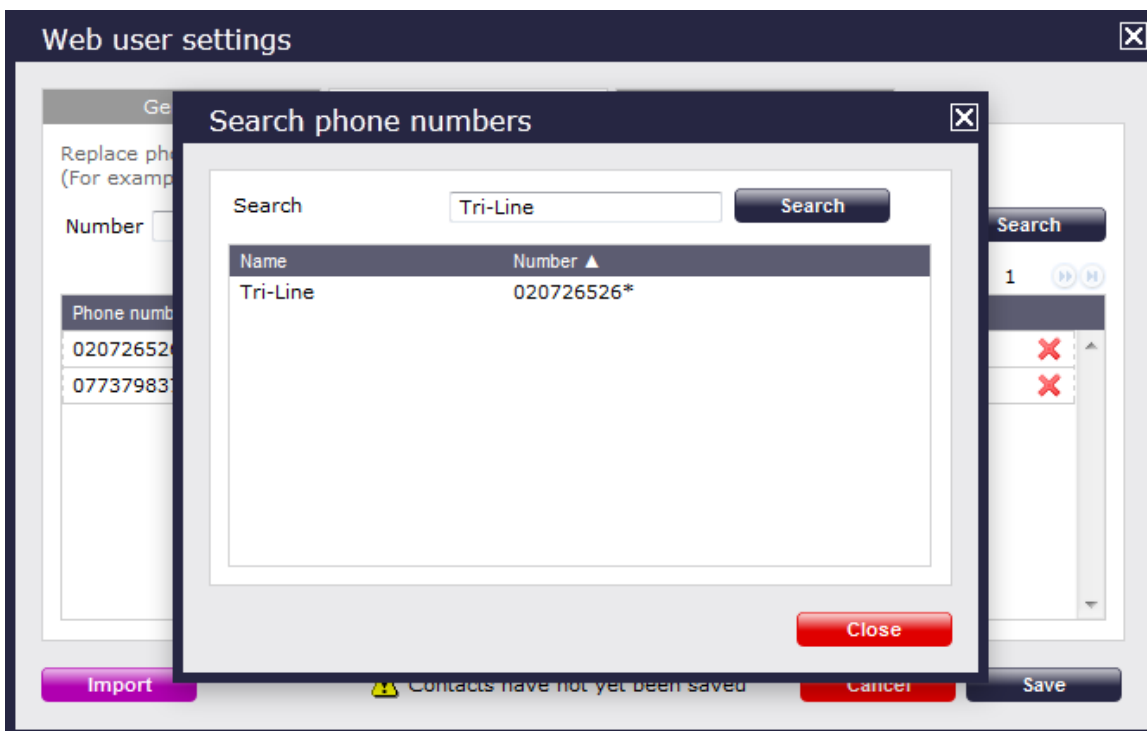
To search for a number in your existing list of contacts, click on the button, as shown below:



A new window will open, where you can enter the phone number you are looking for, as shown below:



Follow the same procedure to search for a location name:



Account contacts

The tab allows you to add a list of contacts to each individual web user, replacing account codes with friendly names wherever they feature throughout the system, e.g. in reports, display boards, etc.

Adding account code contacts manually

To manually add an account code contact, enter the account code number and the name you want to associate with it, then click on the button, as shown below:

Web user settings [X]

General | Phone contacts | **Account contacts**

Replace account codes with friendly names wherever they feature throughout the system.
(For example, in reports, display boards, etc.)

Number Name **Add** **Search**

Page 1 of 1

Account code ▲	Name
No contacts	

Import **Cancel** **Save**

Importing account code contacts

To automatically import account code contacts in the system from an existing list, arrange your data in CSV format comprising of two columns separated by a common delimiter, such as comma, dash, semicolon, tab or space.

Click on the **Import** button and paste the CSV list in the box provided, then click on the **Next** button:

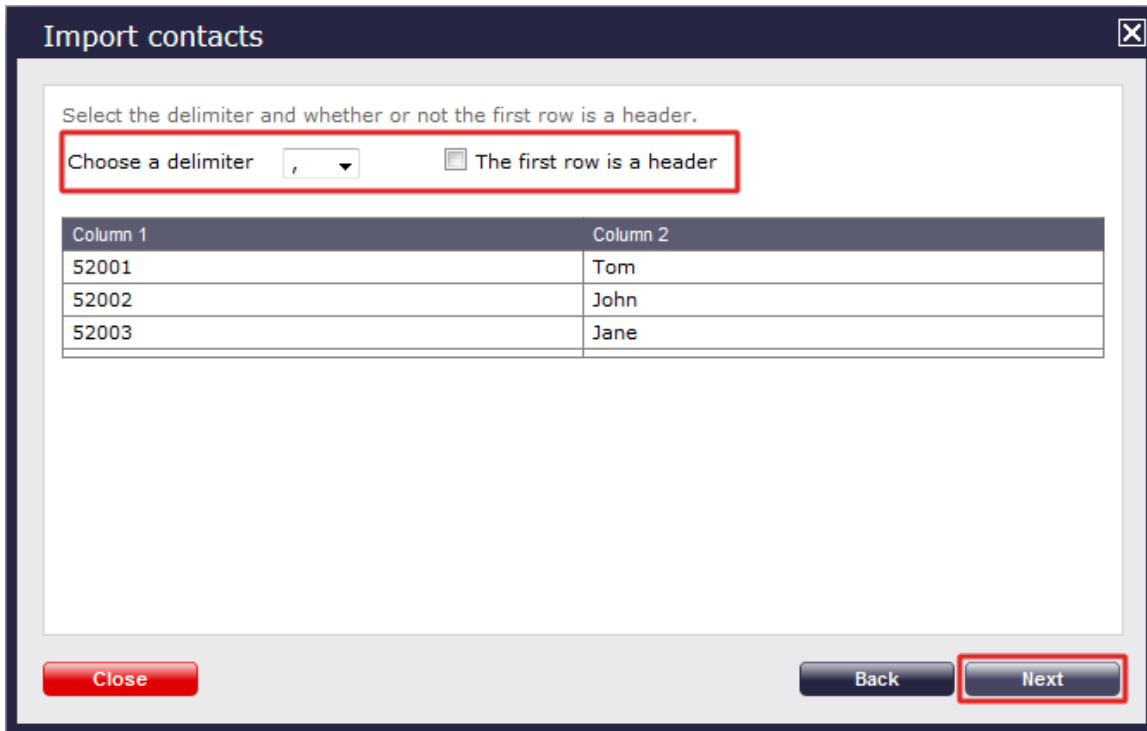
Import contacts [X]

Paste your CSV data into the box below:

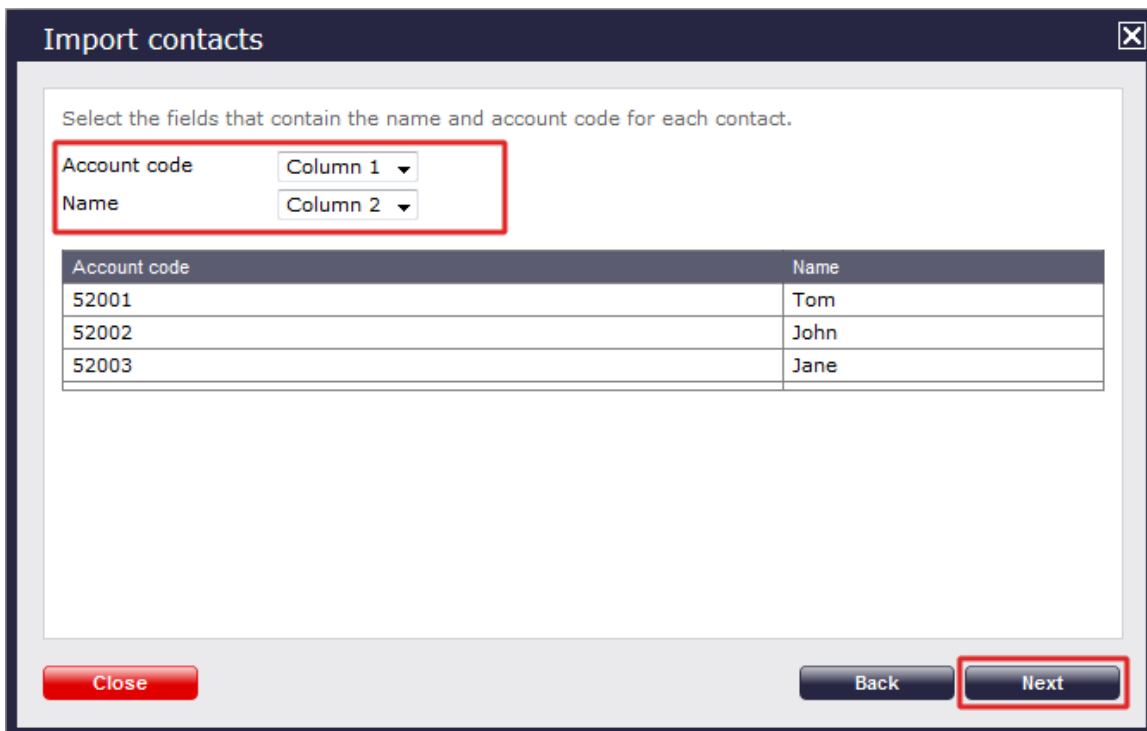
```
52001, Tom
52002, John
52003, Jane
```

Close **Back** **Next**

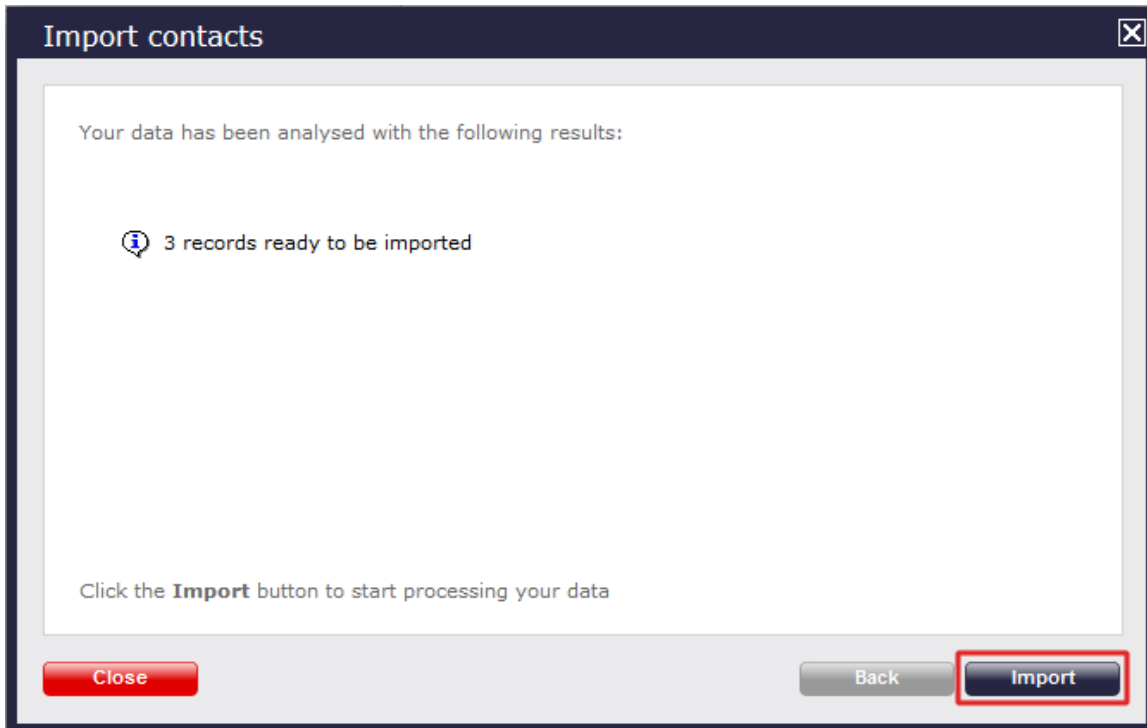
Choose from the drop-down list the delimiter you want to use to separate the two columns, and whether you want to use the first row as a header:



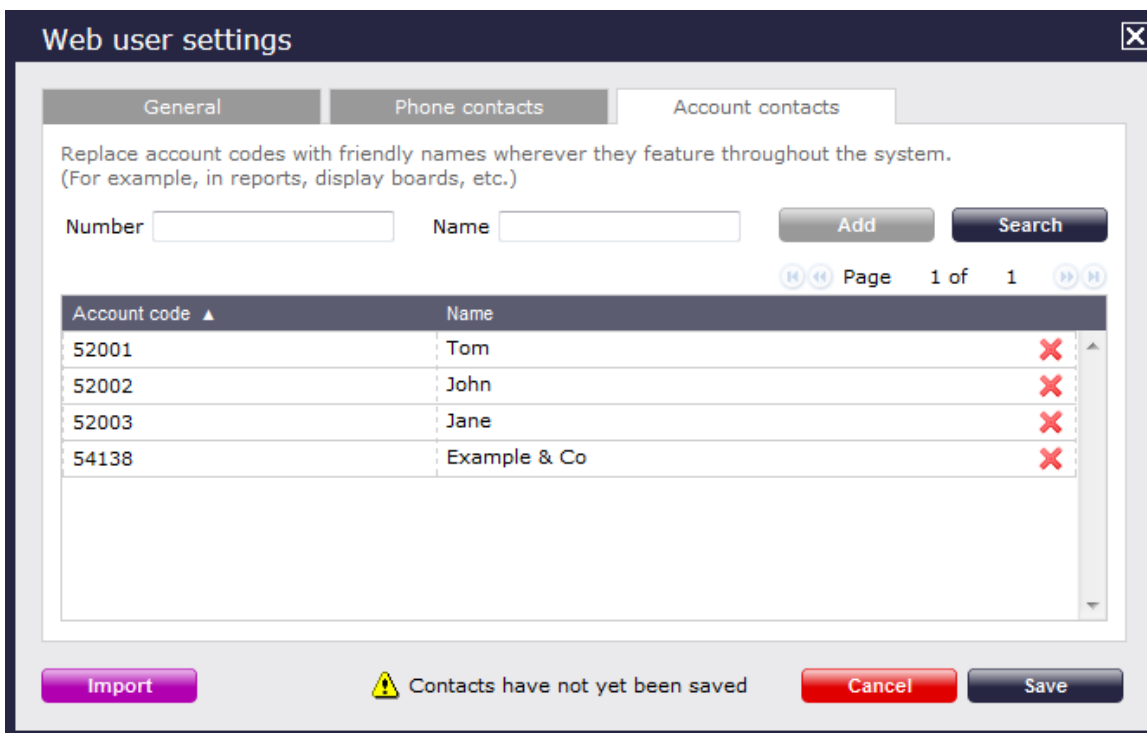
Select the column you want to use for the name and account code information, then click on the **Next** button, as shown below:



The system will analyse your data and will return the number of contacts ready to be imported:

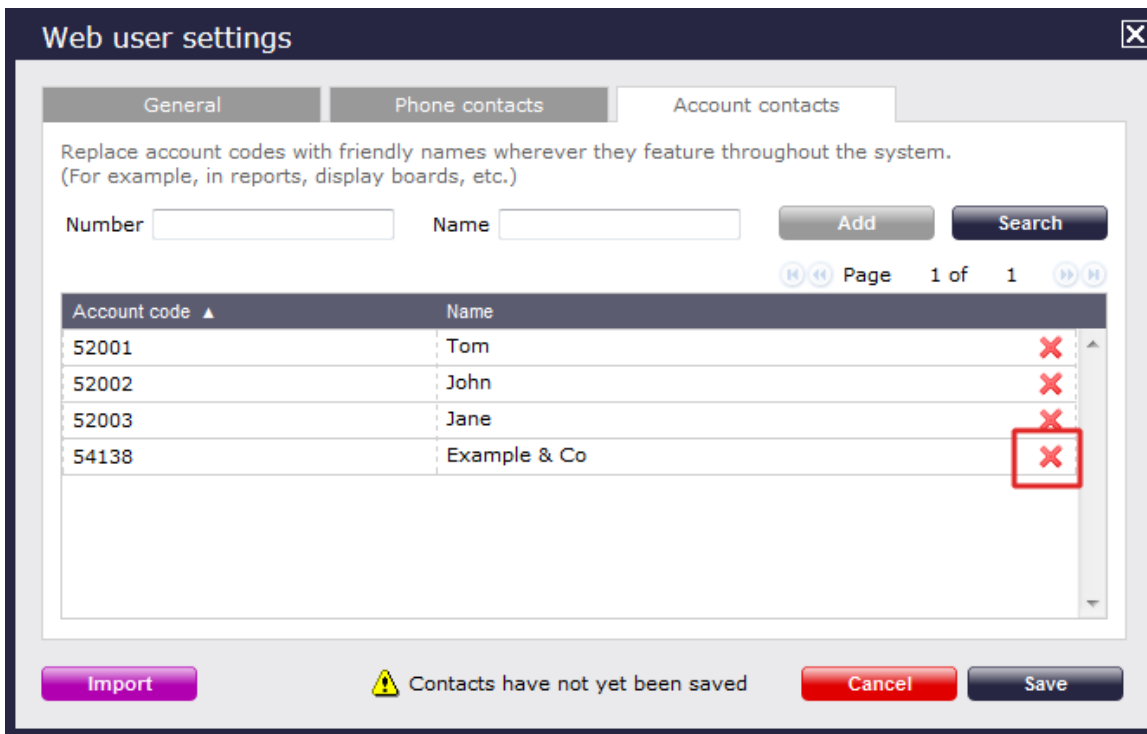


Click on the **Import** button to automatically import the contacts in the system.



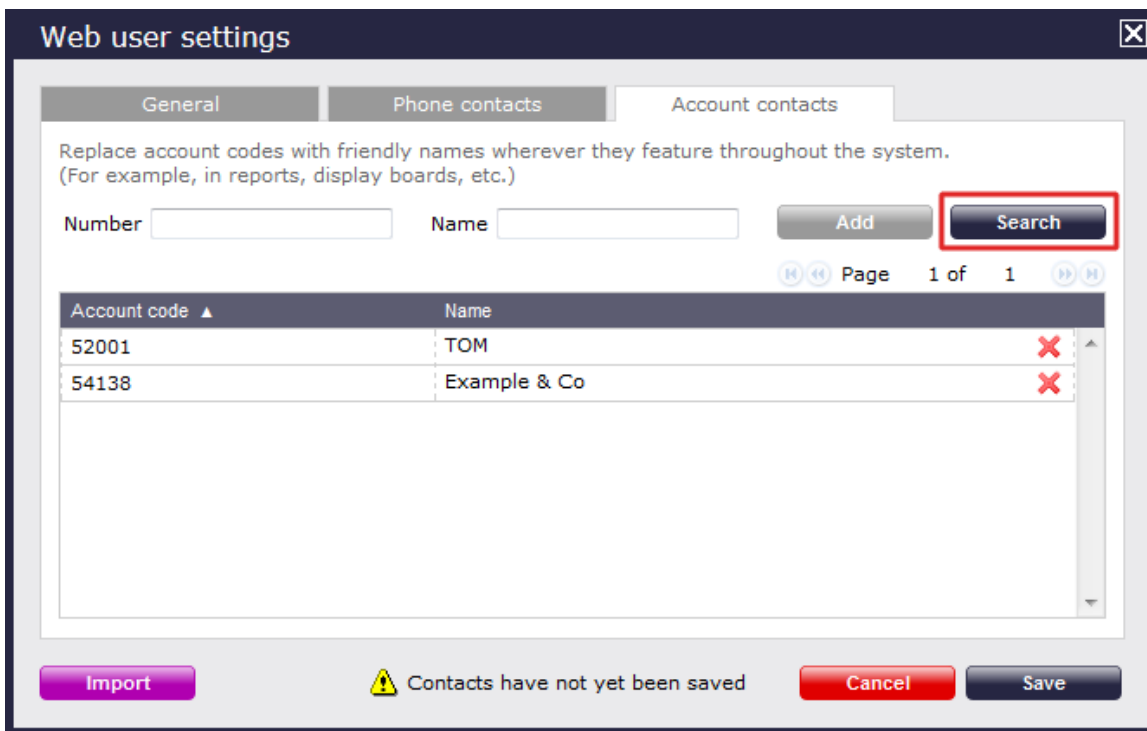
Deleting an account code contact

If you no longer want a name associated with a particular account code number, click on the **✗** icon alongside it to delete it, as shown below:

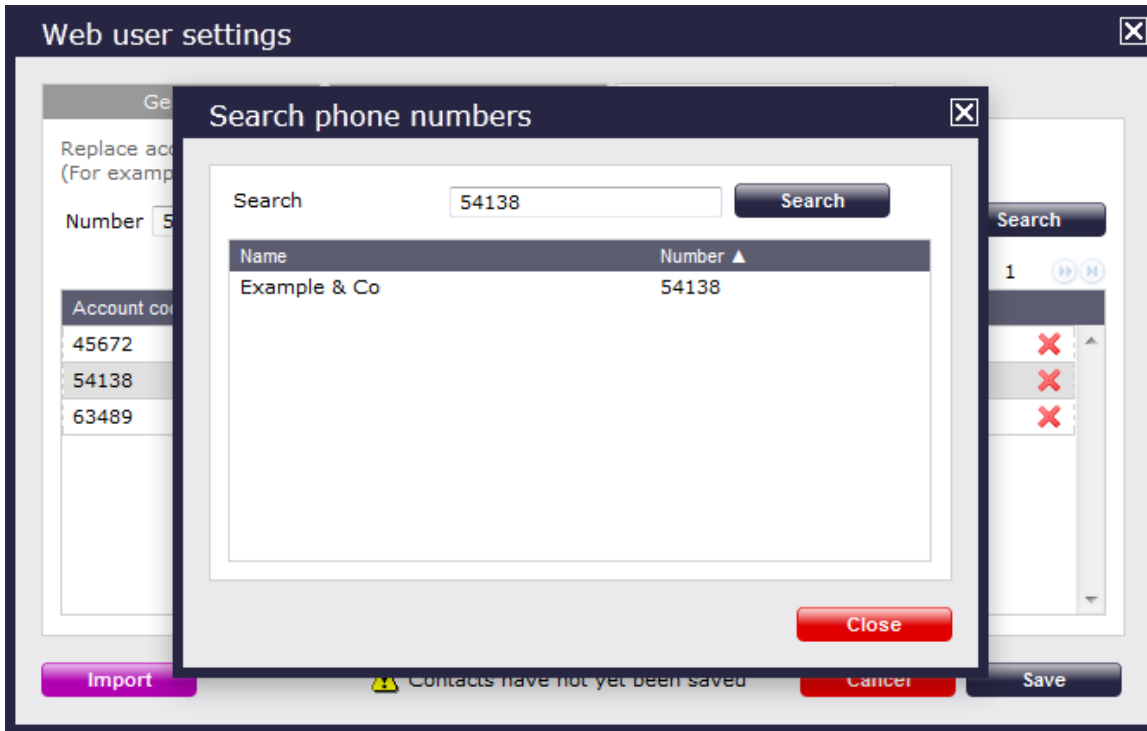


Searching for an account code

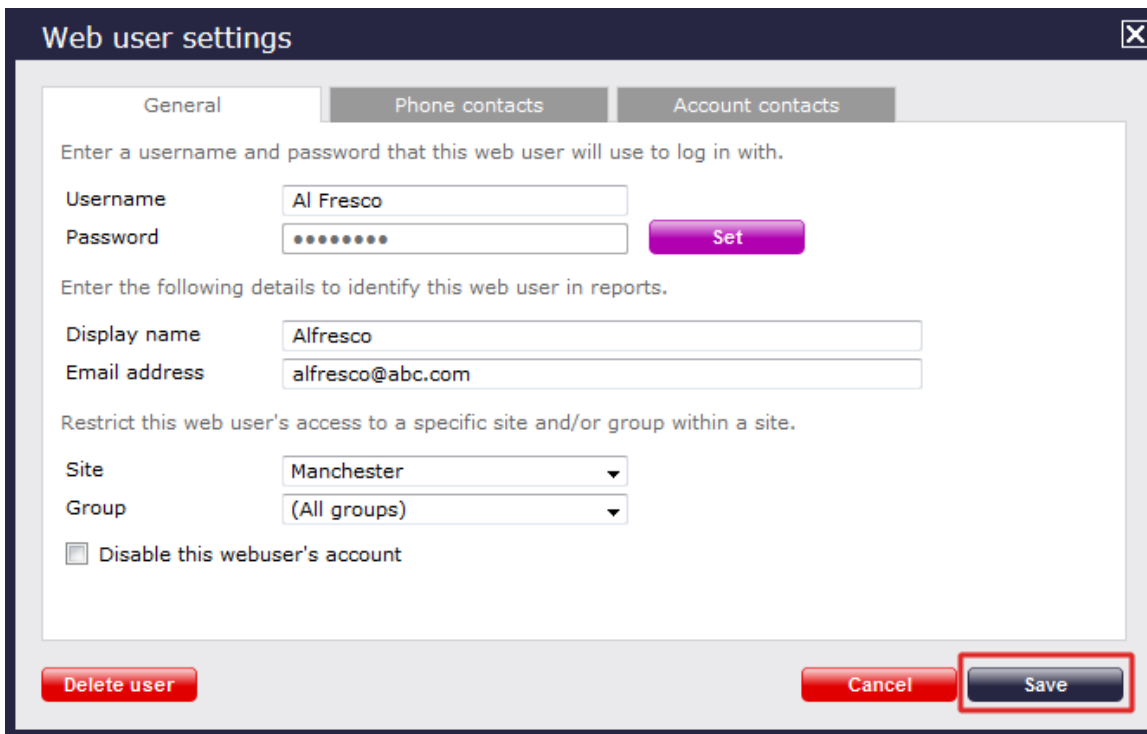
To search for an account number in your existing list of contacts, click on the **Search** button, as shown below:



A new window will open, where you can enter the account code you are looking for, as shown below:



When you have configured the properties of your web user, click on the **Save** button to apply the changes, as shown below:



Email

This section allows you to configure the details of your mail server in order to enable TIM Plus to send out scheduled reports, call alarms, missed call notifications or system alerts.

TIMPLUS

[Reports](#)
[Directory](#)
[Call view](#)
[Live stats](#)
[Tariff editor](#)
[Settings](#)
[Alerts](#)

Web users

Email

Web server

Alerts

License

Questions

Voice recording

Email

Check
Save

Enter your mail server properties.

Server host & port	<input type="text" value="mail.tri-line.net"/>	<input type="text" value="25"/>	Type	<input type="text" value="None"/>
Greeting name	<input type="text"/>		Username	<input type="text"/>
"From" address	<input type="text" value="paris1@tri-line.com"/>		Password	<input type="text"/>

Enter an email address to which a test email can be sent, in order to verify your settings.

Test address

The table below contains a description of each field in this section.

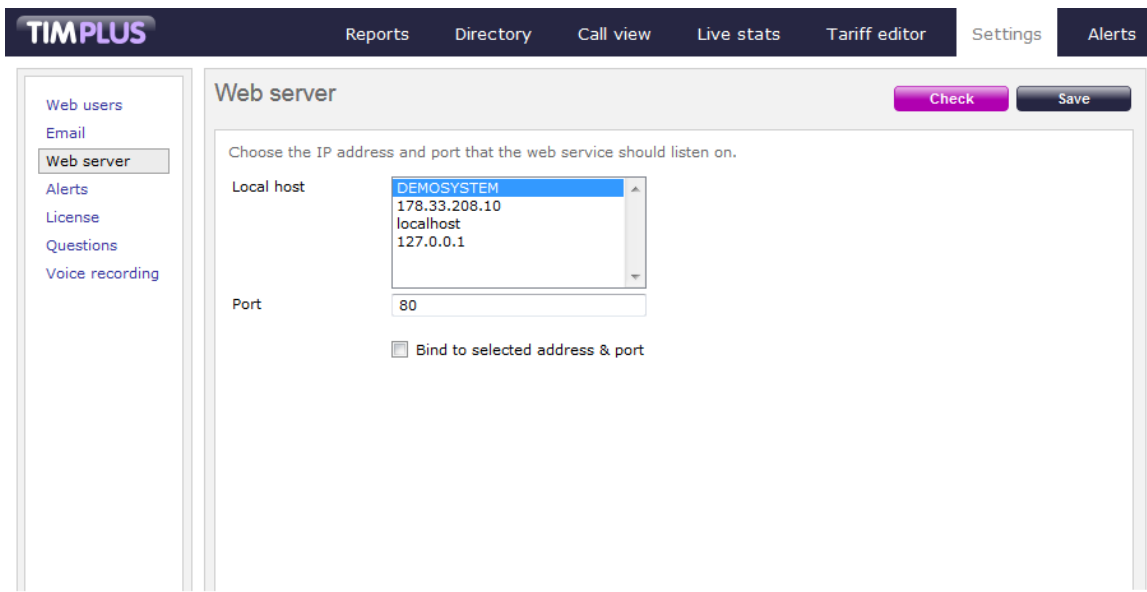
Field name	Description
Server host & port	The IP address or host name of your company's mail server and the port number, which by default is 25.
Greeting name	The Greeting name required by your mail server to identify the computer that is sending the email. In most cases, this is the network name of the server running TIM Plus.
"From" address	The email address that will appear in the From section of any emails sent from TIM Plus.
Test address	The email address you want to use to send a test email, in order to verify your email settings.
Type	The authentication method used by your mail server. Choose None if the authentication is automatic or not used.
Username	Enter the username of the SMTP authentication.
Password	Enter the password of the SMTP authentication.



If you don't know any of the information required in this section, consult your system maintainer.

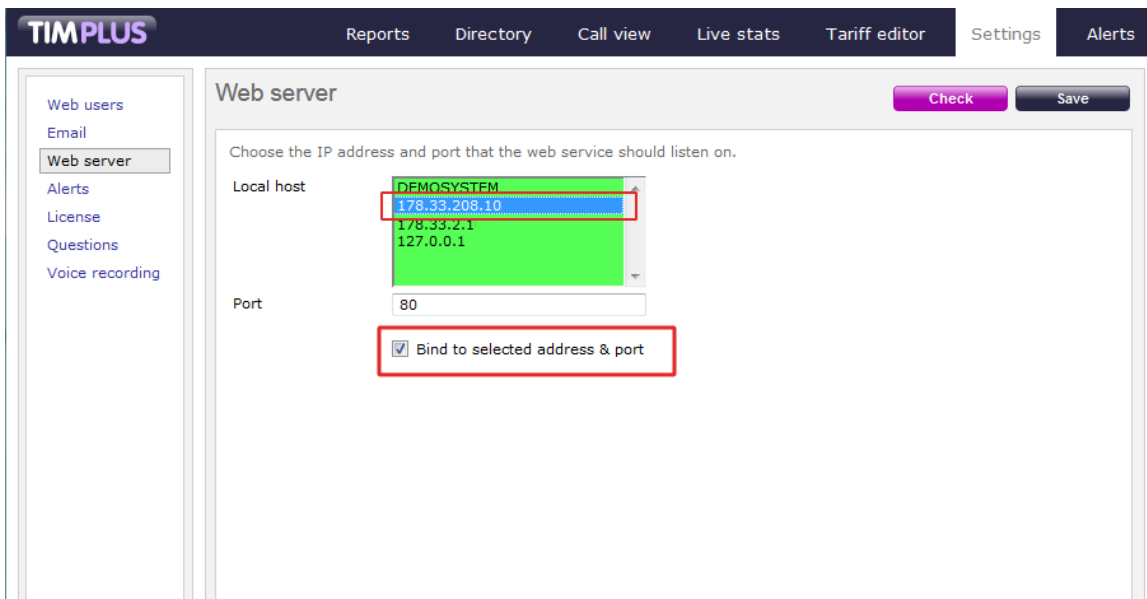
Web server

TIM Plus has its own built-in web server and it can be accessed from any PC on your network without the need of any additional software. To configure, choose the IP address and port number that you want the web service to listen on.



i It is preferable that you use the hostname of the PC running TIM Plus rather than the IP address, especially on networks that use an automatic IP addressing scheme, such as DHCP

If the PC running TIM Plus has more than one IP address, you can choose the one you want TIM Plus to use and bind the web service to listen on that particular address:



To verify your settings, click on the **Check** button at the top-right corner of the screen, as shown below:


If your settings are fine, click on the **Save** button to apply the changes:

Alerts

TIM Plus can be configured to raise an alert when particular events occur whilst the system is running. The alerts can be saved to a log file on disk or sent as an email notification. The table below describes the type of alerts emitted from TIM Plus:

Alert	Description
Critical	A critical alert notifies you of any events that are detrimental to the system, e.g. database failure
Warning	A warning alert notifies you of any non-critical events that have occurred on the system, e.g. you have exceeded your license limit
Information	An information alert notifies you of any system events that have occurred on the system, e.g. if the application service has been restarted
Voice audit	An alert that notifies you of progress during call recording operations
Audit	Provides very detailed information about ongoing system events, primarily used for fault-finding

To send an alert as a notification email, enter the email address in the text box alongside each type of alert, as shown below:

 To send alerts to multiple email addresses, separate each entry with a semicolon.

By default, the alerts are also outputted to a log file, using the following dynamic variables to define the path of the folder where the files will be stored: `{app}\logs\{year}\{year}-{month}-{day}`. The dynamic variables used to define the path are explained in the table below:

Item	Description
<code>app</code>	The full installation path of TIM Plus
<code>year</code>	The year the data was captured in <code>yyyy</code> format
<code>month</code>	The month the data was captured in <code>mm</code> format
<code>day</code>	The day of the month when data was captured in <code>dd</code> format

To choose a different location to store the logs files, overwrite the existing entry.

TIMPLUS Reports Directory Call view Live stats Tariff editor Settings Alerts

Web users
Email
Web server
Alerts
License
Questions
Voice recording

Alerts Save

Enter an email address (or comma-separated list of addresses) for each type of alert.

Critical

Warning

Information

Enter a path and file name to store each type of alert to disk.

Critical

Warning

Information

Voice audit

Audit

When you have finished configuring the settings, click on the **Save** button to apply the changes, as shown below:

TIMPLUS Reports Directory Call view Live stats Tariff editor Settings Alerts

Web users
Email
Web server
Alerts
License
Questions
Voice recording

Alerts Save

Enter an email address (or comma-separated list of addresses) for each type of alert.

Critical

Warning

Information

Enter a path and file name to store each type of alert to disk.

Critical

Warning

Information

Voice audit

Audit

License

This section allows you to view and update your software license. To retrieve your license automatically from our servers, click on the **Get license** button, as shown below:

The screenshot shows the TIMPLUS interface with a navigation bar at the top containing 'Reports', 'Directory', 'Call view', 'Live stats', 'Tariff editor', 'Settings', and 'Alerts'. On the left is a sidebar menu with 'Web users', 'Email', 'Web server', 'Alerts', 'License' (highlighted), 'Questions', and 'Voice recording'. The main content area is titled 'License' and contains the following text:

Here are your license details:-

Company:	Your Company PLC
Capacity:	400 users
Expiry:	14 September 2012
Code:	0

You can check for a new license online right now. Ensure the computer running TIM Plus is connected to the internet, then press the **Get license** button.

Below the text is a purple button labeled 'Get license'.



Internet access is required to be able to connect to our servers and retrieve the license automatically.

If the license updates successfully, the following message will be displayed:

The screenshot shows the TIMPLUS interface with the same navigation bar and sidebar as the previous image. The main content area is titled 'License' and displays a green success message: '✔ License was updated successfully.' This message is enclosed in a red rectangular box. Below the message, the license details are shown:

Company:	Your Company PLC
Capacity:	400 users
Expiry:	21 March 2014
Code:	0

You can check for a new license online right now. Ensure the computer running TIM Plus is connected to the internet, then press the **Get license** button.

Below the text is a purple button labeled 'Get license'.

Obtaining a license manually

If you cannot update your software license automatically, you can apply this manually by following the steps below:

1. Click on the **Manual entry** button from the **License** window. The following screen will appear:

Copy the **product key** from the box below and send it to your vendor.

```

--- BEGIN PRODUCT KEY -----
UAAAAHicAVAAr//Nbr+xuGRkNYsVPRxM1avDr3UEToj9j3DJ
O36fheDXOz5PAFW9GwPpDfai6UUh1tu06+HqtIXrPK6PaAV
yy/arFUj1Avz8EOx5xNkp2qOLVQPKL0=
--- END PRODUCT KEY -----
    
```

Copy the **license certificate** given to you by your vendor into the box below.

2. Log in to the **Gateway** using your username and password.
3. In the **Products** panel, click on the TIM Plus product.
4. In the **Software license** panel, click on the **View license certificate** link, as shown below:

Software license
[View license certificate](#)

This product is licensed
 The license for this product is valid until **20 September 2013**.

5. Copy the license certificate and paste it in the TIM Plus license box.

Questions

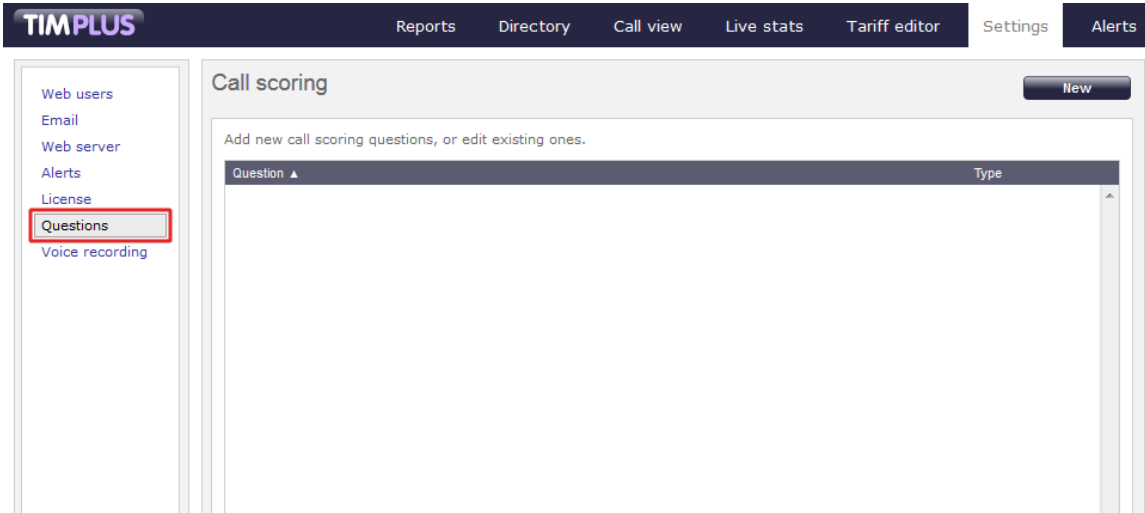
Questions

- Overview
- Adding a question
- Editing a question
- Using the score cards

Overview

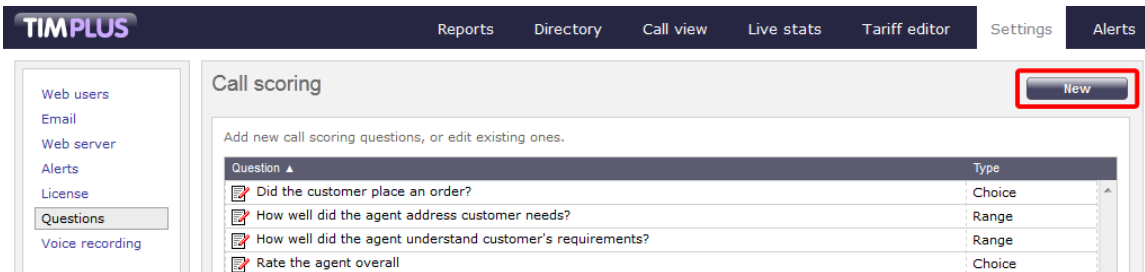
This section allows you to create your own score cards by defining a list of questions that must be completed for each call that you score, in order to rate calls for evaluation purposes.

To access the **Questions** section, click on the **Questions** button on the left-hand side menu. The following screen will be displayed:

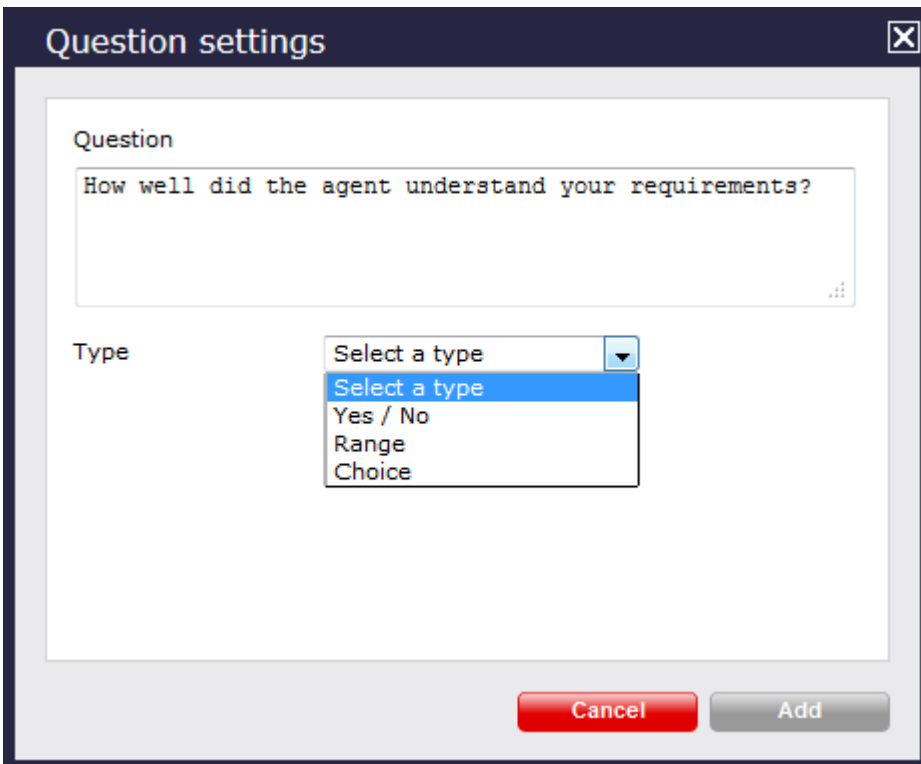


Adding a question

To add a question, click on the **New** button at the top-right of the screen, as shown below:



The **Question settings** window will appear, where you can enter your question and define its answer type:



Each answer type is explained in the table below:

Answer type	Description
-------------	-------------

<p>Yes/No answer</p>	<p>Calls will be rated based on a yes/no answer, e.g. Was the call answered quickly?</p> <div data-bbox="719 241 1465 831" style="border: 1px solid #ccc; padding: 10px;"> <p>Question</p> <p>Was the call answered quickly?</p> <p>Type Yes / No ▼</p> </div>
<p>Range answers</p>	<p>Calls will be rated based on a defined range of values, e.g. On a scale of 1 to 10, how well did the agent understand the caller's requirements?</p> <div data-bbox="719 1048 1465 1637" style="border: 1px solid #ccc; padding: 10px;"> <p>Question</p> <p>How well did the agent understand your requirements?</p> <p>Type Range ▼</p> <p>Minimum value 1</p> <p>Maximum value 10</p> </div>

Multiple choice answers

Calls will be rated according to a fixed set of pre-defined answers, e.g. excellent, good, average, below average, bad.

Question

Rate the agent overall

Type: Choice

Choice text: Excellent

- Excellent
- Very good
- Good
- Average
- Below average

To remove an answer from the list, click on the ✗ icon.

Editing a question

To edit a question, click on it to select it from the list of available questions, as shown below:

Question	Type
Did the customer place an order?	Choice
How well did the agent address customer needs?	Range
How well did the agent understand customer's requirements?	Range
Rate the agent overall	Choice
Was the agent friendly and helpful?	Yes / No
Was the call answered quickly?	Yes / No

The **Question settings** window will open, where you can edit the question or modify its answer type:

Question settings [X]

Question
Did the customer place an order?

Type: Choice

Choice text: [Add]

- Placed order [X]
- Booked demonstration [X]
- Requested more information [X]
- Not interested [X]

[Delete] [Cancel] [Update]

To delete a question from the list, click on the **Delete** button at the bottom-left corner of the window, as shown below:

Question settings [X]

Question
How well did the agent address customer needs?

Type: Range

Minimum value: 0


Maximum value: 10

[Delete] [Cancel] [Update]

Using the score cards

Once you have created your score cards, you can use them to score any call logged by the system. You can then run reports on these scored calls, in order to assess the performance of your staff.

Scoring a call

To score a call from the **Call** view screen, click on the  icon, as shown below:

TIMPLUS									
			Reports	Directory	Call view	Live stats	Tariff editor	Settings	Alerts
Most recent calls									
<div style="text-align: right;"> Clear Columns Save </div>									
Date	Time	Source	Route	Destination	Response	Duration	Cost		
22 April 2013	16:04:36	Brighton	01273272389	FriendsC MtgRm	22	00:02:28	0.00		
22 April 2013	15:57:07	CoA Fax	270	MC Aoife	9	00:00:09	0.00		
22 April 2013	15:56:43	T-Mobile	07572432055	VM Channel 42	10	00:00:07	0.00		
22 April 2013	15:56:33	T-Mobile	07572432055	PD Helen	0	00:00:00	0.00		
22 April 2013	15:56:20	FriendsC MtgRm	215	Friends Helen	4	00:00:12	0.00		
22 April 2013	15:52:24	T-Mobile	07572432055	VM Channel 11	10	00:00:06	0.00		
22 April 2013	15:52:14	T-Mobile	07572432055	PD Helen	0	00:00:00	0.00		
22 April 2013	15:51:50	Brighton	01273229006	VM Channel 42	18	00:00:20	0.00		
22 April 2013	15:49:29	O2	07540225047	FriendsC MtgRm	19	00:01:27	0.00		
22 April 2013	15:47:53	T-Mobile	07572432055	VM Channel 42	10	00:00:06	0.00		
22 April 2013	15:47:43	T-Mobile	07572432055	PD Helen	0	00:00:00	0.00		
22 April 2013	15:47:00	T-Mobile	07941016150	VM Channel 42	26	00:00:12	0.00		
22 April 2013	15:44:38	PD Helen	184029407737590316	Unknown	3	00:00:05	0.00		
22 April 2013	15:44:20	T-Mobile	07572432055	PD Helen	15	00:00:00	0.00		
22 April 2013	15:43:57	Brighton	01273541103	VM Channel 42	26	00:00:06	0.00		

The Call detail window will open, where you can score the call using the previously-created score cards, as shown below:

Call detail

Audio
Audit
Notes
Scores

Rate the agent overall

- Excellent
- Very good
- Good
- Average
- Below average
- Bad

Was the agent friendly and helpful?

Yes No

Close
Save

To score a call from an itemised report, click on it to display the Call detail window, then select the Score tab, as shown below:

My custom report

2013-06-04 18:19:02

Home \ TIM Plus \ London \ About this report

All
Outbound
Answered
Missed
Internal

Show all
1 of 8

Date & Time	Source	CLI	Route	Destination	Response	Duration	Cost	
04/06/2013 00:00:46	Lo				-	00:02:05	-	
04/06/2013 00:03:36	T-				-	00:01:00	-	
04/06/2013 00:03:46	T-				-	00:01:12	-	
04/06/2013 00:03:51	Lo				-	00:02:14	-	
04/06/2013 00:07:21	T-				-	00:01:01	-	
04/06/2013 00:09:26	O2				-	00:04:10	-	
04/06/2013 00:10:56	Vo				-	00:01:13	-	
04/06/2013 00:14:38	Vo				-	00:00:04	-	
04/06/2013 00:15:06	Vo				-	00:01:39	-	
04/06/2013 00:18:33	O2				-	00:00:12	-	
04/06/2013 00:19:13	Lo				-	00:02:29	-	
04/06/2013 00:19:33	O2				-	00:00:12	-	
04/06/2013 00:20:13	O2				-	00:01:21	-	
04/06/2013 00:20:28	O2				-	00:00:11	-	
04/06/2013 00:21:38	Lo				-	00:00:33	-	
04/06/2013 00:27:43	T-				-	00:00:31	-	
04/06/2013 00:28:51	Lo				-	00:01:04	-	
04/06/2013 00:33:01	Vodafone			Floyd Tomlinson	-	00:02:34	-	
04/06/2013 00:34:36	Vodafone	07717530155	-	Natt Chen	-	00:02:41	-	
04/06/2013 00:34:56	Vodafone	07767777666	-	Sally Gansa	-	00:02:04	-	
04/06/2013 00:35:36	Vodafone	07825041492	-	Floyd Tomlinson	-	00:00:17	-	
04/06/2013 00:38:03	Hutchison 3G	07723461861	-	Jack Garrett	-	00:01:05	-	
04/06/2013 00:38:31	London	02072670055	-	Sam Thornton	-	00:03:18	-	
04/06/2013 00:39:36	UNAVAILABLE	-	-	Pete Moore	-	00:00:06	-	
04/06/2013 00:42:13	UNAVAILABLE	-	-	Drabash Bhandari	-	00:01:30	-	

Call detail

Audio
Audit
Notes
Scores

[Direct link](#)

Close

Reporting on scored calls

Use the **Call scoring** report to obtain a comprehensive analysis of answers to previously-scored calls. All question types are summarised and grouped into their respective category.

TIM Plus

Did the customer place an order? (3 scores)		Placed order	33%
		Booked demonstration	33%
		Requested more information	33%
		Not interested	-
<hr/>			
How well did the agent address customer needs? (3 scores)	Min	Average	Max
	5	8.33	10
Based on 3 scores			
<hr/>			
How well did the agent understand customer's requirements? (3 scores)	Min	Average	Max
	4	8	10
Based on 3 scores			
<hr/>			
Rate the agent overall (3 scores)		Excellent	100%
		Very good	-
		Good	-
		Average	-
		Below average	-
		Bad	-
<hr/>			
Was the agent friendly and helpful? (3 scores)		Yes	67%
		No	33%
<hr/>			
Was the call answered quickly? (3 scores)		Yes	100%
		No	-
<hr/>			
6 questions			

Voice recording

Voice recording

- How it works
- Adding recording equipment
- Configuring your recording device
- Voice recording - video overview

How it works

By adding one or more of our supported voice recording options, it is possible to store the audio recording of every telephone call that TIM Plus processes.

Which option you choose depends on what type of telephone calls you want to record. In most cases, the recording equipment is placed between your telephone system and your telephone lines (channels) and any phone calls that are made over those channels are intercepted, recorded, then sent to TIM Plus to be attached to the logged call.

To record calls over PSTN channels such as ISDN30 (PRI/E1/T1/J1), ISDN2 (BRI) or analogue POT lines, a piece of physical hardware - the

Magic Box - is used to physically connect into your lines.

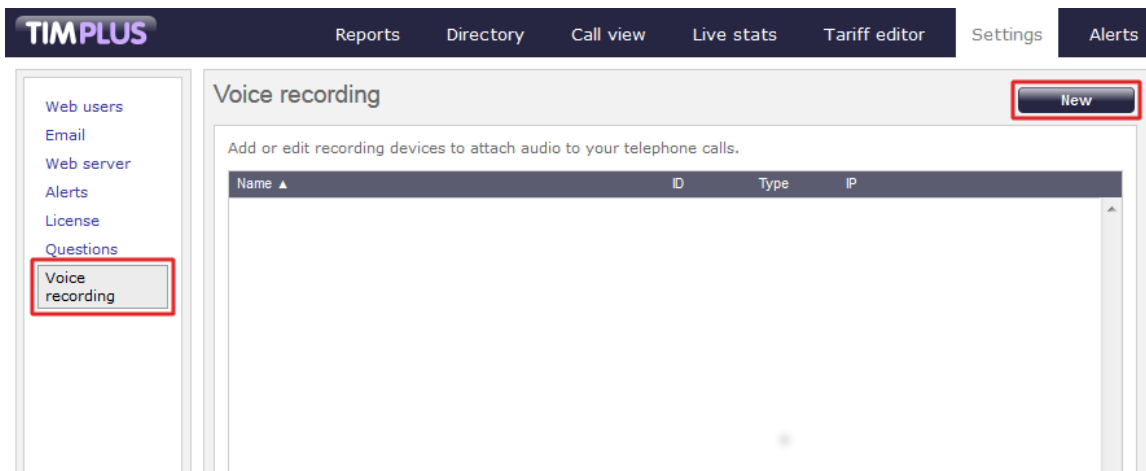
For VoIP (SIP) channels, a PC with a standard network interface card (NIC) can be used to capture the voice packets from strategic points in your voice network. If many simultaneous VoIP calls are expected, a dedicated computer with multiple NICs becomes necessary.

Any number of recording devices can be configured to provide their audio recordings to TIM Plus, and a hybrid network of both types of interface can be used in a single TIM Plus deployment.

Adding recording equipment

After installing either a Magic Box or Echo into your voice network, you need to configure its presence in TIM Plus.

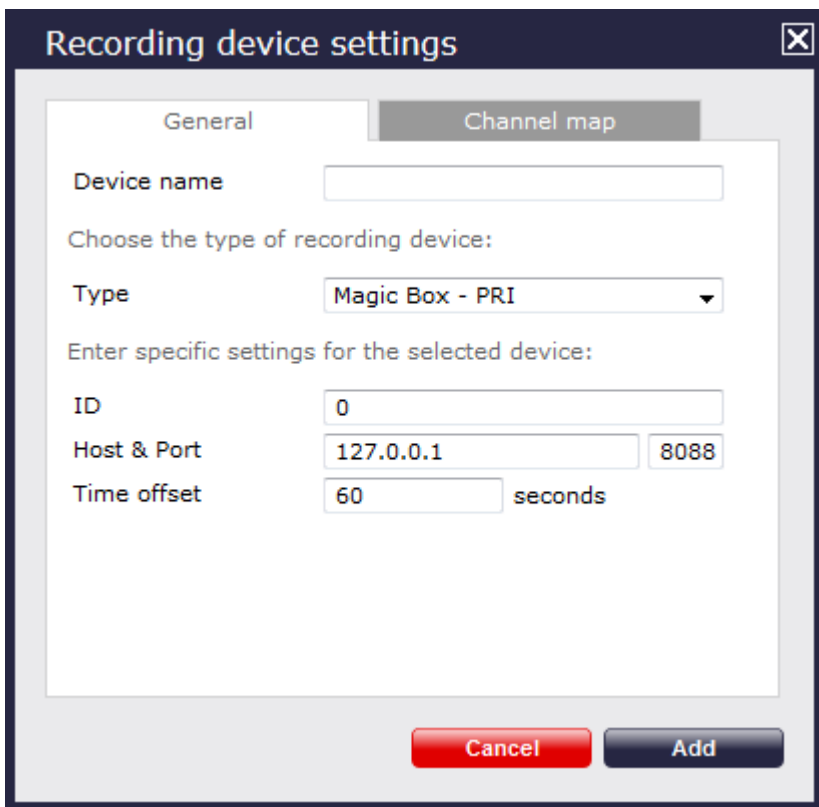
Ensuring you are logged in to TIM Plus as an administrator, click on the **Settings** tab and select the **Voice recording** option from the left-hand side menu. To add a new voice recording option, click on the **New** tab, as shown below:



A new window will appear, allowing you to configure the settings of your call recording device.

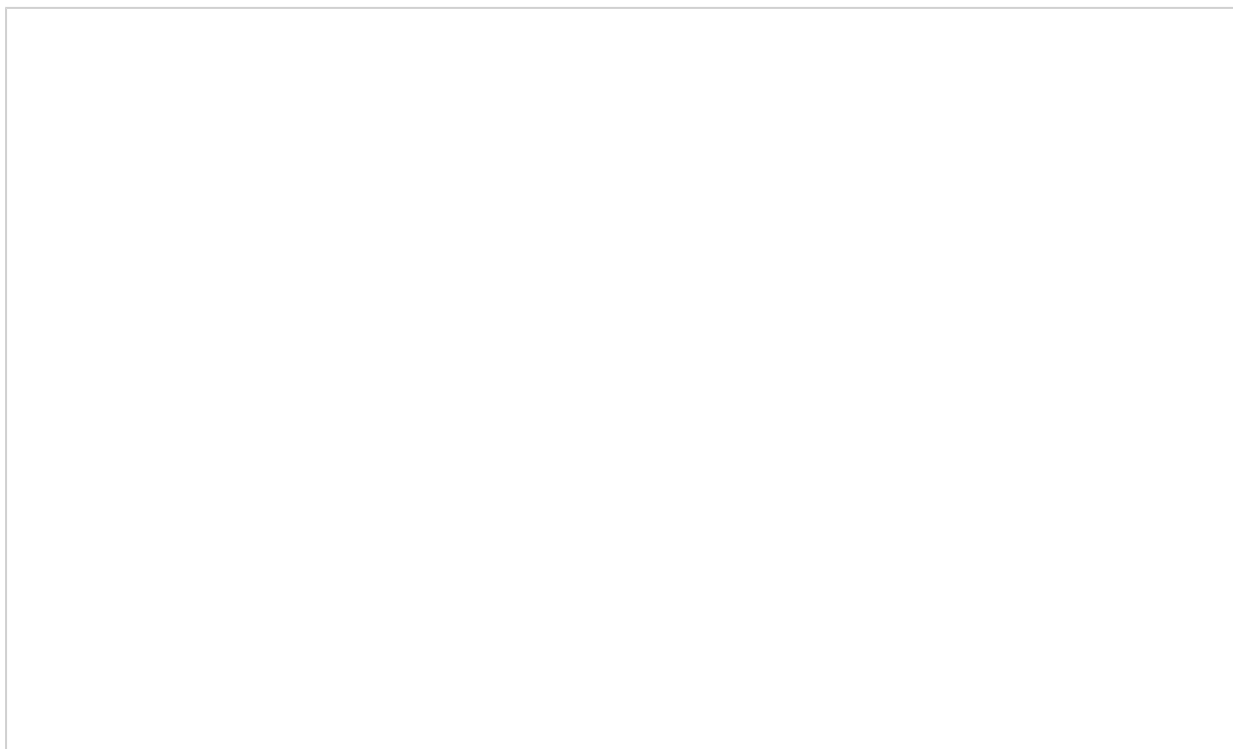
Configuring your recording device

To configure your recording device, enter the following settings in the **Recording device settings** window:



Setting	Description
Device name	The name of your recording device
Type	The type of telephone lines you are using: PRI, BRI, Analogue, VOIP
ID	The unique identifier of each call recording device
Host & Port	The IP address of the recording device, or computer to which the device is attached
Time offset	The time interval around which TIM Plus will search for calls when matching audio files

Voice recording- overview video

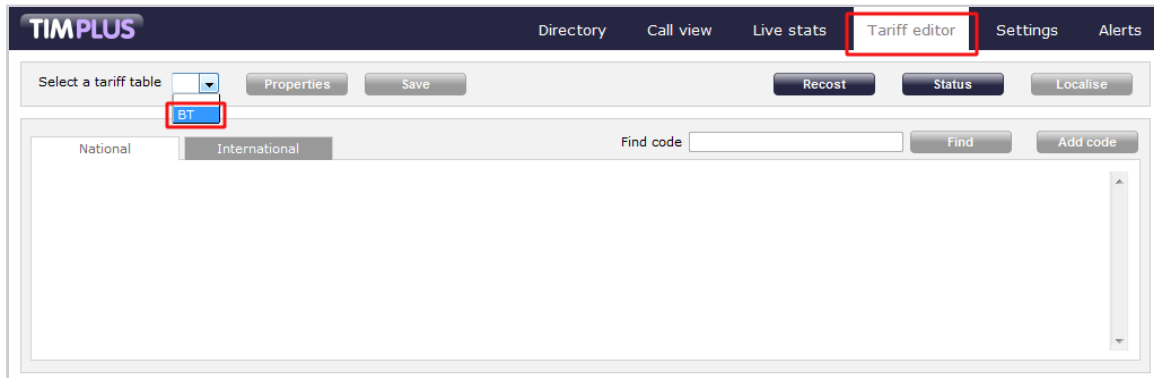


Knowledgebase

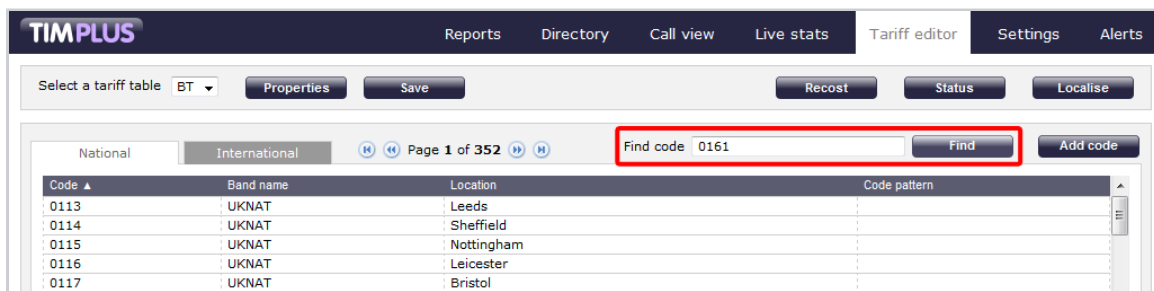
Amending call charges

To modify call charges for a specific dial code or destination, follow the steps below:

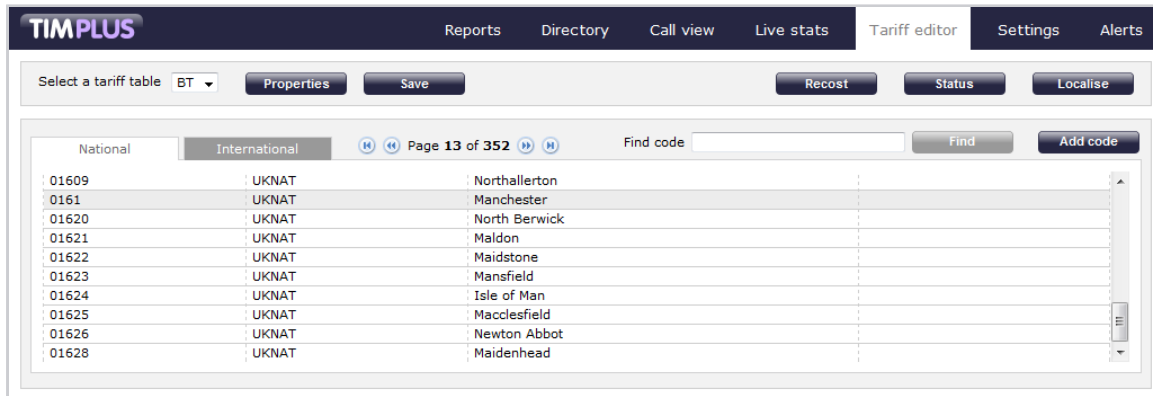
1. Log in to TIM Plus, click on the **Tariff editor** tab and select the tariff you want to amend from the drop-down list, as shown below:



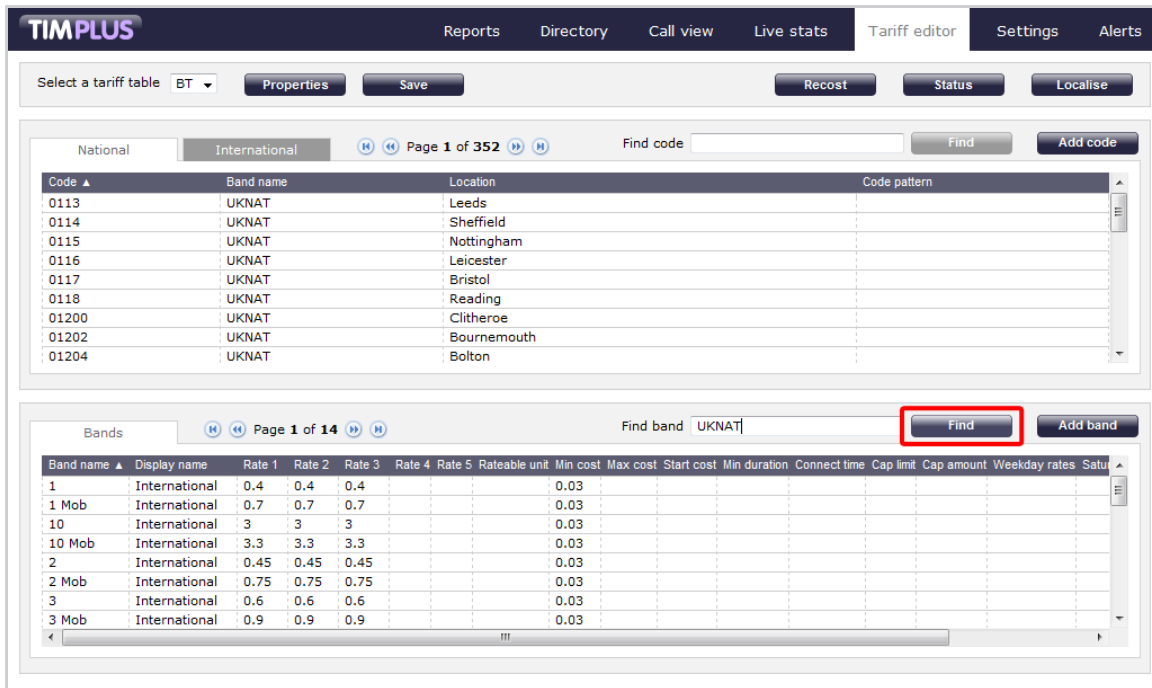
2. Locate the dial code for which you want to amend the charges, by entering the code in the search box provided.



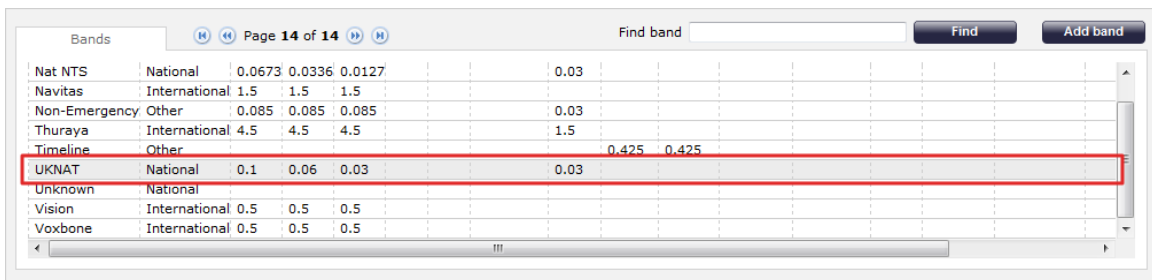
3. The matching dial code will be highlighted in grey, showing its associated charge band and destination name.



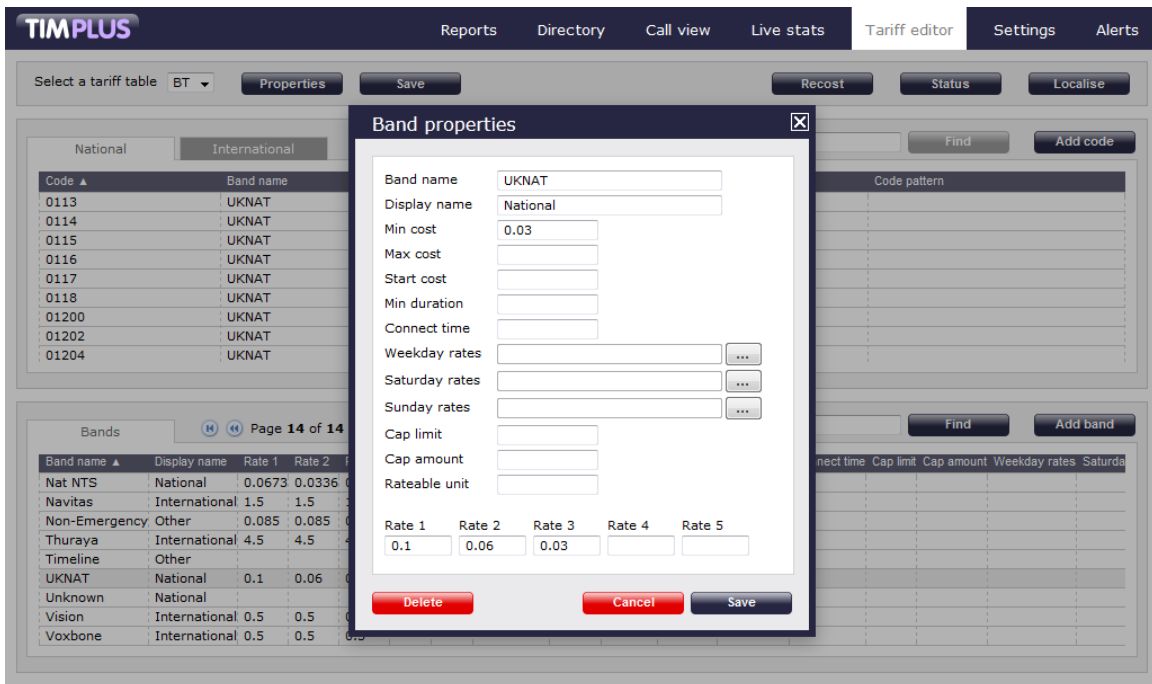
4. Enter the name of the charge band in the **Find band** search box, as shown below:



5. The matching band will show highlighted in grey, as shown below:



6. To configure the properties of the selected band, click on it to open the Band properties window.



7. To change the existing charges, e.g. Rate 1, Rate 2, etc, enter the preferred values in the field provided.

Band properties [X]

Band name: UKNAT
 Display name: National
 Min cost: 0.03
 Max cost:
 Start cost:
 Min duration:
 Connect time:
 Weekday rates: ...
 Saturday rates: ...
 Sunday rates: ...
 Cap limit:
 Cap amount:
 Rateable unit:

Rate 1	Rate 2	Rate 3	Rate 4	Rate 5
0.1	0.06	0.03	<input type="text"/>	<input type="text"/>

Buttons: Delete, Cancel, Save

8. To see how each rate is applied, click on the button.

Weekday rates:

Saturday rates: ...

Sunday rates: ...

Cap limit:
 Cap amount:
 Rateable unit:

9. A new window will open, where you can edit the rate times. To apply any changes, click on the button.

Rates by hour [X]

00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2

Buttons: Cancel, Save

Automatic web login

Background

All of the web pages and scripts that TIM Plus serves are protected by a login that is provided by a user when entering their username and password into a pop-up dialog presented by their web browser.

In some situations, it is desirable to suppress this dialog box demanding the username and password. An example might be the deployment of a stand-alone computer displaying a pre-defined wallboard on a large screen; it would become tedious having to log in to the web page every time that computer is restarted.

Different web browsers behave differently when asked to automatically log in to web sites. Various, they range from complete prohibition of the practise to permitting it only if certain system parameters are configured.

Specifics

In this article, details of how to allow automatic logging-in to a web page concerns the Microsoft Internet Explorer (version 6 and above) browsers only. Please consult your browser documentation for a solution related to your own choice of browser.

The solution involves creating a specially-crafted URL in the following form:

```
http://username:password@serverhost/
```

Solution

Although including the username and password in a URL is disabled by default on Windows Internet Explorer since it is considered a security risk, you can override this restriction by making the following changes to the Windows Registry.



Since you'll be exposing a username and password as part of a URL, it is recommended that you create a dedicated web user object inside the TIM Plus directory that will be used solely for this purpose. See the [Web users](#) page for details of how to set up a web user.

Open Windows Registry Editor, **REGEDIT.EXE**, from the Windows **Start Menu** and locate the following registry key:

- for a 32-bit system:

```
HKEY_LOCAL_MACHINE\Software\Microsoft\Internet  
Explorer\Main\FeatureControl\FEATURE_HTTP_USERNAME_PASSWORD_DISABLE
```

- for a 64-bit system:

```
HKEY_LOCAL_MACHINE\Software\Wow6432Node\Microsoft\Internet  
Explorer\Main\FeatureControl\FEATURE_HTTP_USERNAME_PASSWORD_DISABLE
```

Inside this registry key, add the following **DWORD** entries:

```
IEXPLORE.EXE (Set DWORD value to 0, zero)  
EXPLORER.EXE (Set DWORD value to 0, zero)
```

Close the Registry Editor and create a bookmark in Internet Explorer, specifying the URL as per the following example:

```
http://USERNAME:PASSWORD@HOSTNAME/display/?suiv=12345
```

Replace the following entries:

- **USERNAME** replace with the username of the web user you use to access the page
- **PASSWORD** replace with the password of the web user you use to access the page
- **HOSTNAME** replace with the host name or IP address of the machine running TIM Plus

References

This information is available in more detail at the Microsoft Support site:

<http://support.microsoft.com/kb/834489>

Blacklisted users

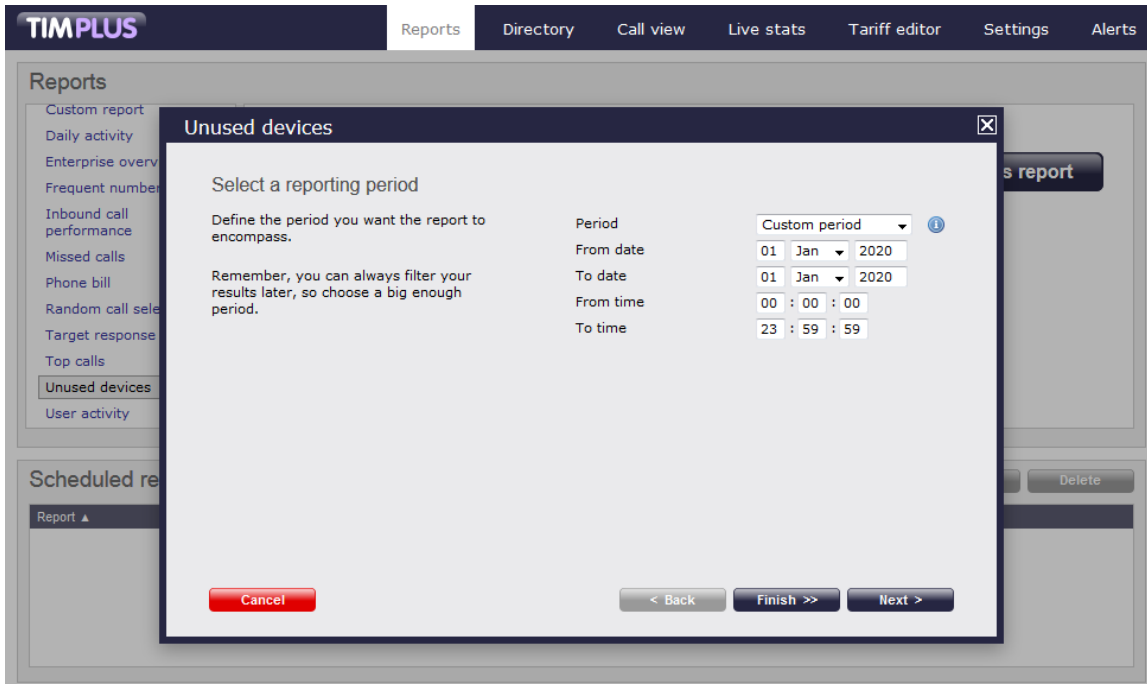
Blacklisted users

- [What are blacklisted users?](#)
- [Setting users to not log calls](#)
- [Merging a DDI with its extension](#)

What are blacklisted users?

Blacklisted users are created in the system when your software license is insufficient for the number of users picked up in the Directory. The users will be blacklisted at random and they will not be logging calls.

To identify the total number of users currently logged in the system, you can run a **Unused devices** report for a period of time when no calls were made or received. The best option is to select a date in the future, e.g. **01-01-2020**.



The report will display the total number of users picked up in the system.

My unused devices					2013-10-10 14:55:12
Entire organisation \				About this report	
Users		Channels			
Name ▲	ID	Email	DDI	Mobile	
1950	1950	-	-	-	
80100	-	-	-	-	
8888	8888	-	-	-	
A Tarpey	1301	-	-	-	
B Ahmed	1602	-	-	-	
C Chester	1000	-	-	-	
C Lowe	1603	-	-	-	
D Xue	1605	-	-	-	
Joe Bloggs	-	-	-	-	
John Smith	-	-	-	-	
L Anderson	1231	-	-	-	
M Thompson	1619	-	-	-	
New User	-	-	-	-	
New User 1	-	-	-	-	
New User 2	-	-	-	-	
R Londesborough	5105	-	-	-	
T Alexander	1248	-	-	-	
T Dangerfield	1903	-	-	-	
T Quirk	1904	-	-	-	
Test 1	-	-	-	-	
Test 2	-	-	-	-	
V Afanasiev	1334	-	-	-	
VM Channel 11	9511	-	-	-	
VM Channel 42	9542	-	-	-	
24 users					

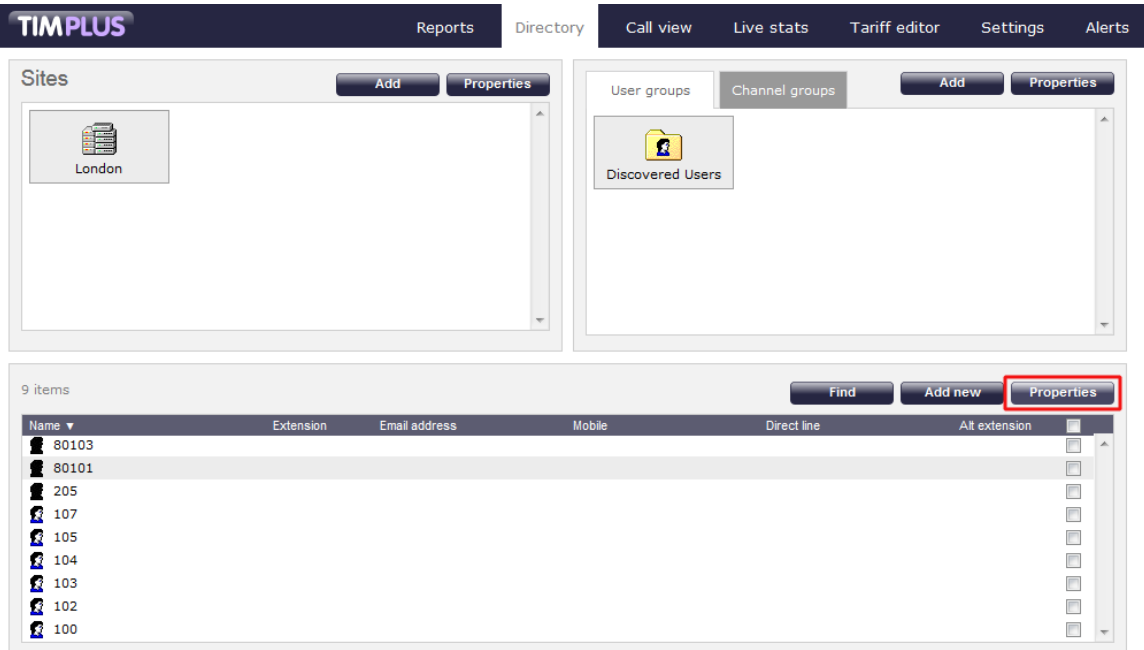
If the total number of users exceeds your license count, you can contact our [Sales team](#) to purchase more licenses for your users, alternatively you can check if any of the following applies:

- DDI numbers are picked up as extensions, in which case you can [merge the DDIs with their extension number](#) or [set them to not log calls](#)
- you have old extensions that you don't wish to monitor, in which case you can [set them to not log calls](#)

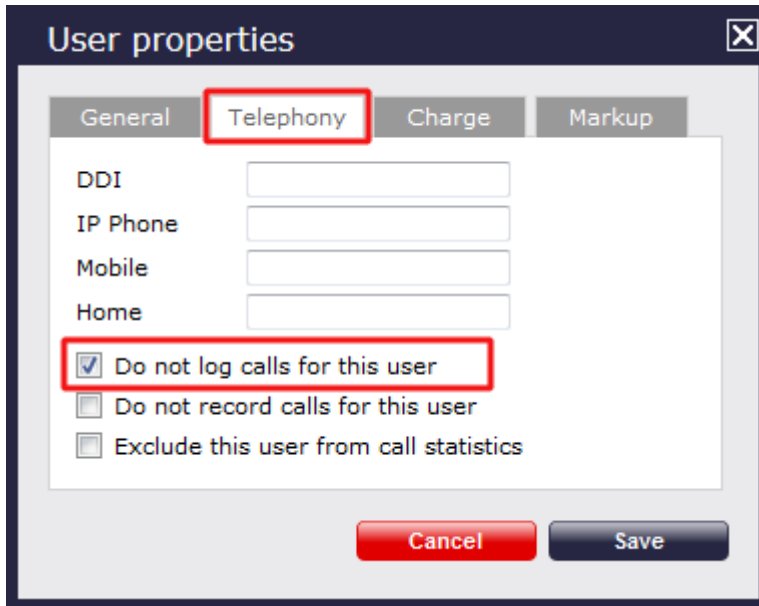
Setting users to not log calls

Follow the steps below to set a user to not log calls:

1. Locate the extension you want to set to Do not log in the Directory, select it from the list and click on the **Properties** button, as shown below:



2. The user properties window will open. Click on the **Telephony** tab and tick the **Do not log calls for this user** box.



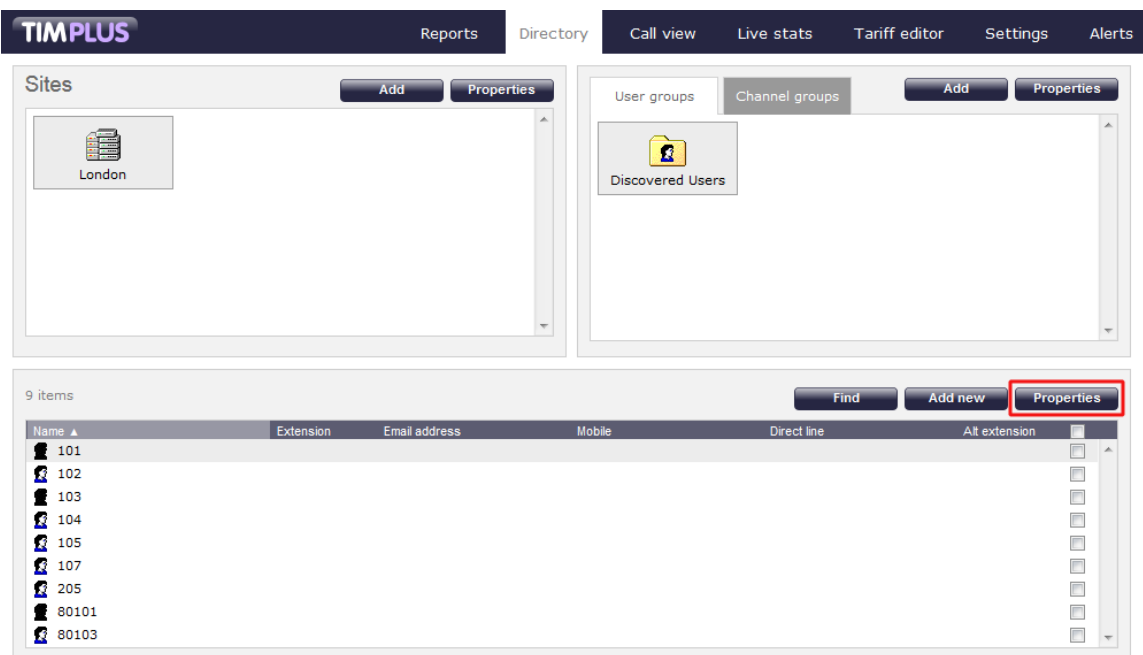
i For the changes to take effect, you need to restart the TIM Enterprise service.

Merging a DDI with its extension

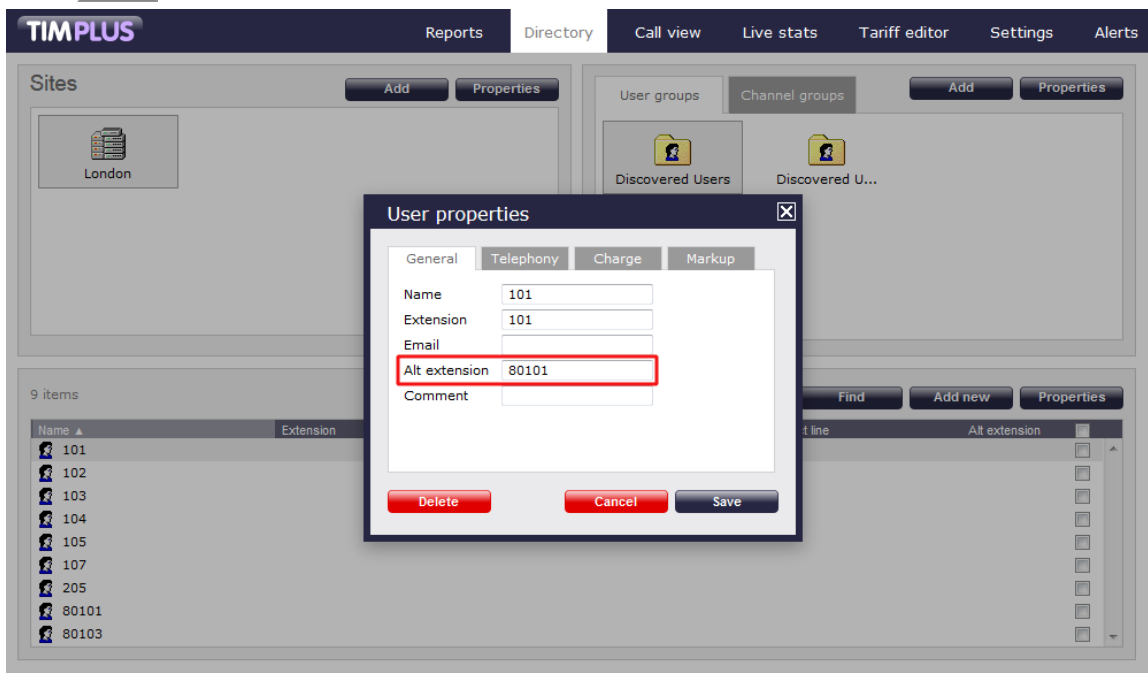
Follow the steps below to merge a DDI with its extension:

1. Locate in the Directory the extension you want to merge, select it from the list and click on the **Properties** button, as shown

below:




2. A new window will open, displaying the general properties of the user. In the **Alt extension** field, enter its DDI number and click on the **Save** button, as shown below:



3. Locate in the Directory the users object created for the DDI number and delete the user from the **User properties** window, as shown below:


The screenshot shows a 'User properties' dialog box with a dark blue title bar and a close button (X) in the top right corner. Below the title bar are four tabs: 'General', 'Telephony', 'Charge', and 'Markup'. The 'General' tab is active, displaying a form with the following fields: 'Name' (containing '80101'), 'Extension', 'Email', 'Alt extension', and 'Comment'. At the bottom of the dialog are three buttons: 'Delete' (highlighted with a red border), 'Cancel', and 'Save'.

 For the changes to take effect, you need to restart the TIM Enterprise service.

Cisco specific

CDRs were being sent but have now stopped

If you stopped receiving data from your Cisco UCM, you need to restart the `CDR Services` on the `Publisher` node.

 DO NOT delete the `Call Accounting and Billing` server, as this will remove any CDRs that have not been sent.

To restart the CDR services, login to the `Cisco Unified Serviceability` screen and select `Tools -> Control Center -> Network Services` from the main menu. Locate the `CDR services` section in the list and restart the following services in the order specified below;

1. `Cisco Database Layer Monitor` (Depending on Cisco UCM version, you may not have this service)
2. `Cisco CDR Repository Manager`
3. `Cisco CDR Agent`
4. `Cisco CAR Scheduler` (if sending CMRs)

<input type="radio"/>	Cisco Change Credential Application	Running	Wed Apr 3 14:30:07 2013	42 days 06:13:15
CDR Services				
	Service Name	Status	Start Time	Up Time
<input type="radio"/>	Cisco CDR Repository Manager	Running	Wed May 15 19:42:05 2013	0 days 00:01:17
<input type="radio"/>	Cisco CDR Agent	Running	Wed May 15 19:42:49 2013	0 days 00:00:33
<input type="radio"/>	Cisco CAR Scheduler	Starting		
<input checked="" type="radio"/>	Cisco SOAP - CallRecord Service	Running	Wed Apr 3 14:26:51 2013	42 days 06:16:31
<input type="radio"/>	Cisco CAR DB	Running	Thu Oct 11 03:32:17 2012	216 days 17:11:05
Security Services				
	Service Name	Status	Start Time	Up Time
<input type="radio"/>	Cisco Trust Verification Service	Running	Thu Oct 11 03:31:35 2012	216 days 17:11:47

CDRs should now be sent to the configured Call Accounting and Billing server, i.e. the machine running TIM Enterprise.

Importing historic data from Cisco UCM

Exporting CDR/CMR records

The following procedure describes how to export CDR/CMR into a dump file. This information was taken from [Export CDR/CMR Records Configuration](#) section of Cisco's documentation.

1. Go to the **CDR Analysis and Reporting** section and select **CDR -> Export CDR/CMR** option. The Export CDR/CMR records window will display.
2. In the **From** and **To** date drop-down list boxes, choose a date range for the CDR/CMR **dump.TXT** file.
3. In **Select records**, check the **CDR** and/or **CMR** check box.
4. Click **Export to File**.

Re-running the data

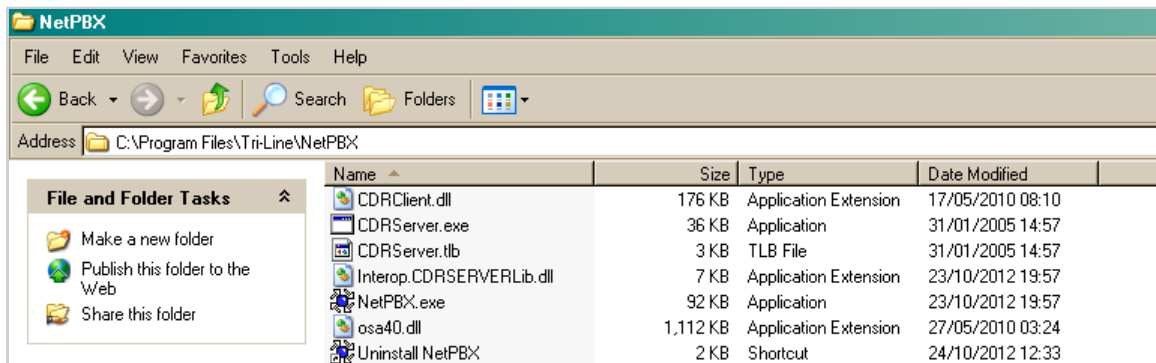
To re-run the CDRs in TIM Plus, you need to rename the dump file extension from **.TXT** to the unique identifier of your PBX object in TIM Plus. To obtain the ID of a site, hover the mouse pointer over it on the **Directory** page in TIM Plus and it will be displayed as a tooltip as shown below:



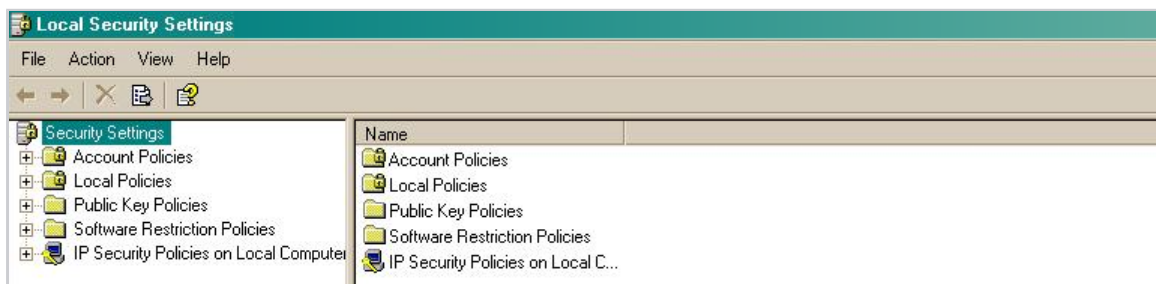
Connecting BCM v3.7 or below with NetPBX

Follow the instructions below to connect a BCM v3.7 or below with NetPBX:

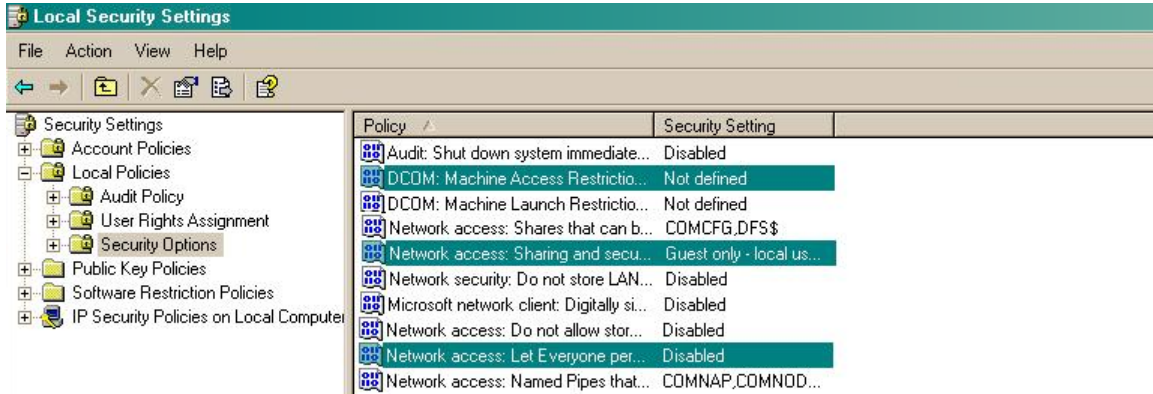
1. Make sure the `CDRServer.EXE` and `Interop.CDRSERVERLib.dll` files are placed in the same folder as `NetPBX.EXE`, usually located in `{pf}\Tri-Line\NetPBX`.



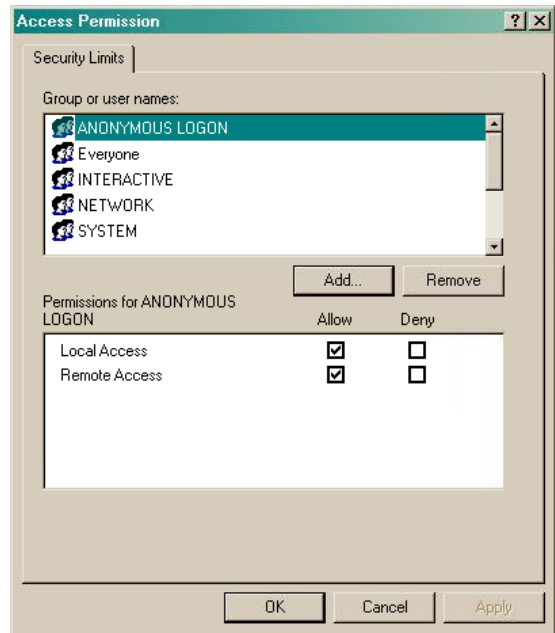
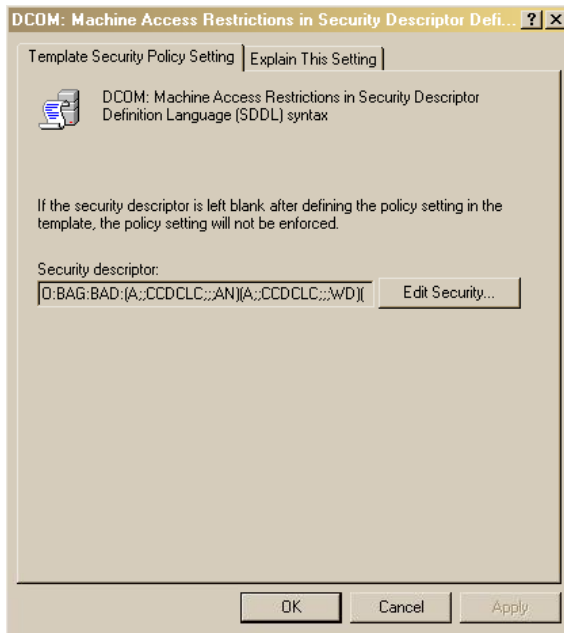
2. Register `CDRServer.EXE` by running the command line with administrator privileges and typing the following command under the directory path of the NetPBX folder: `CDRServer.EXE/regserver`.
3. Open the computer's local security policies: `Start -> Control Panel -> Administrative Tools -> Local Security Policy`.



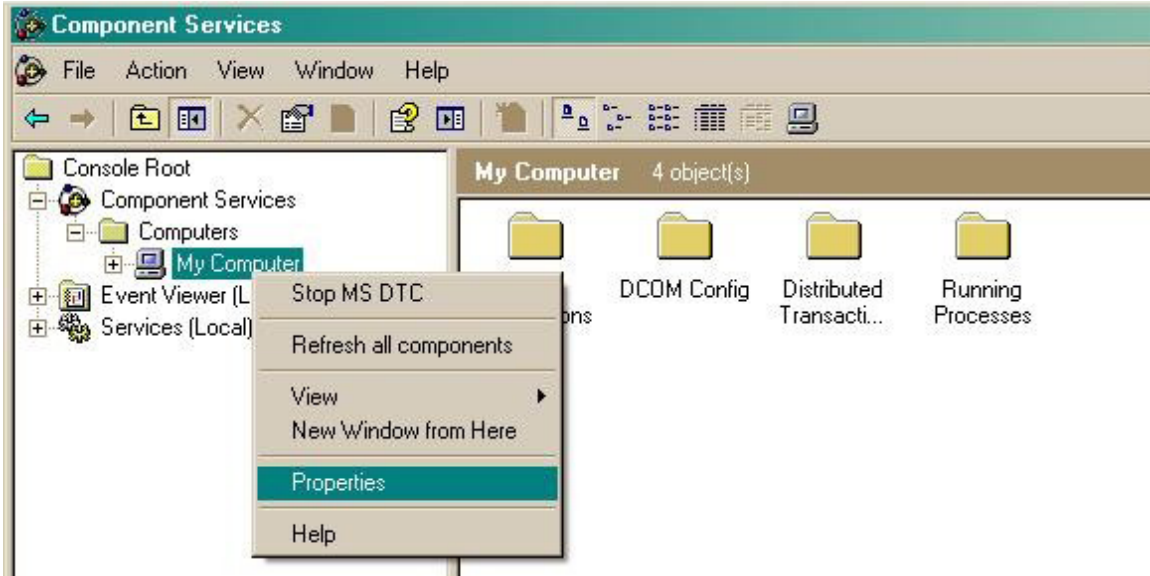
4. Within the `Security Settings\Local Policies\Security Options` tree, change the following items as highlighted in the screenshot below:



- a. Network Access: Let Everyone permissions apply to anonymous users. Set this to **Enabled**.
- b. Network Access: Sharing security model for local accounts. Set this to **Classic**.
- c. DCOM: Machine Access Restrictions: Click on **Edit Security** and add the following user accounts: **Anonymous**, **Everyone**, **Interactive**, **Network**, **System**. Set each one to have full access rights.



5. Next step is to modify the way DCOM behaves on the computer by executing the DCOM configuration program: `start -> Run -> DCOMCNFG [enter]`. Browse the tree to the following location: `Console Root -> Component Services -> Computers -> My Computer`. Right-click on `My Computer` for **Properties** and amend or update the following options:

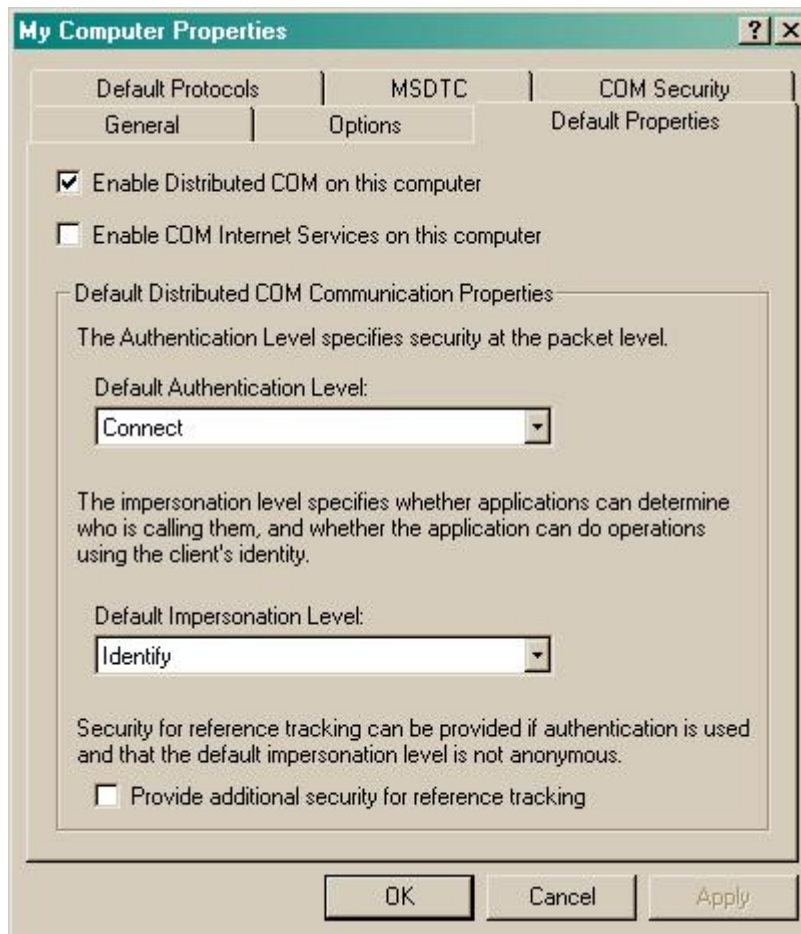


a. On the **Default Properties** tab:

Enable Distributed COM on this computer: tick the box for his option

Default Authentication Level: set this to **Connect**

Default Impersonation Level: set this to **Identify**

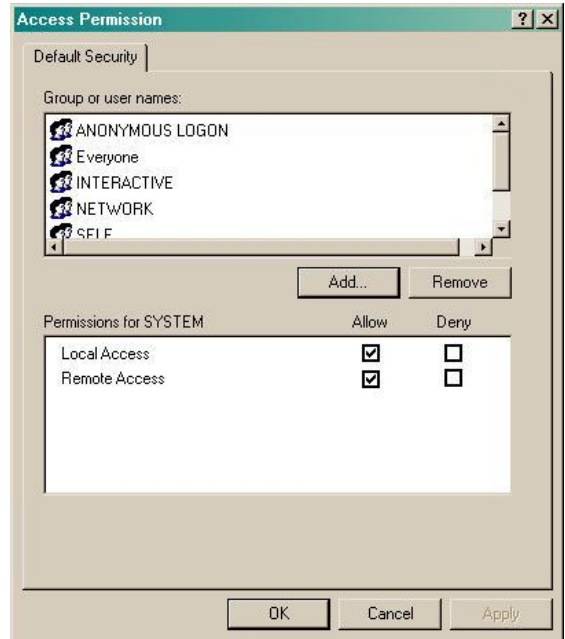
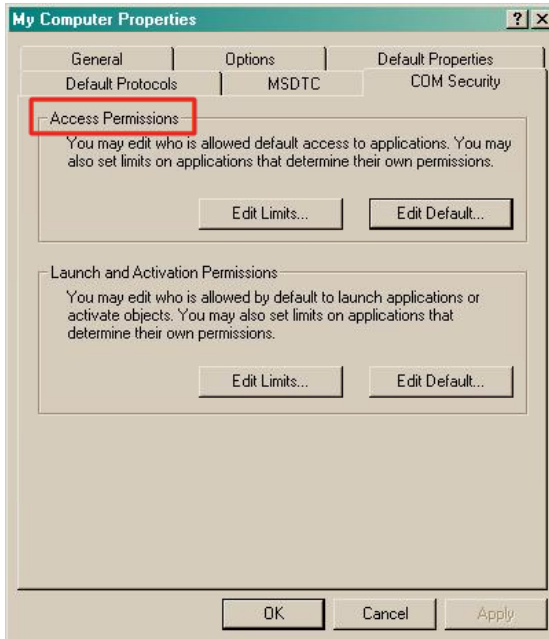


b. On the **COM Security** tab:

Go to the **Access Permissions** section and select **Edit default**.

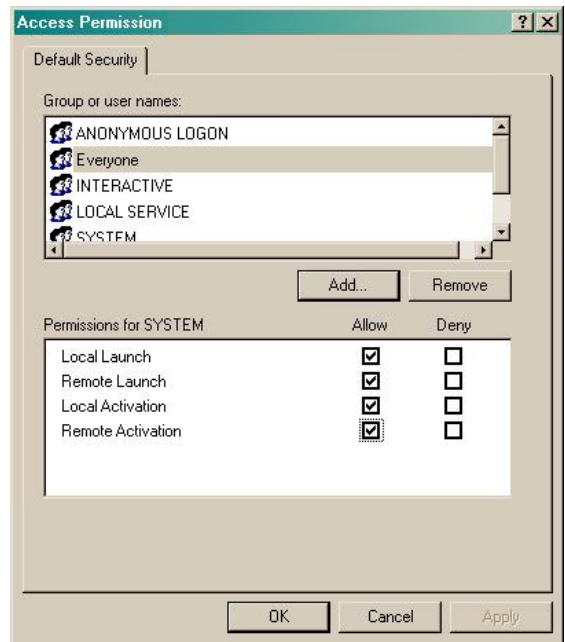
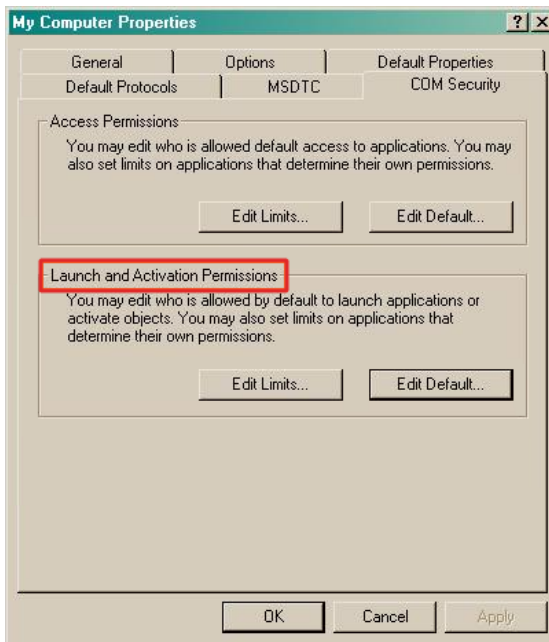
Add the following accounts and set both local and remote access permissions: **Anonymous**, **Everyone**, **Interactive**,

Network, Local Service and System.



Go to the **Launch and Activation Permissions** section and click on **Edit default** tab.

Add or update the following accounts to give them all local and remote access permissions: **Anonymous**, **Everyone**, **Interactive**, **Network**, **Local Service** and **System**.



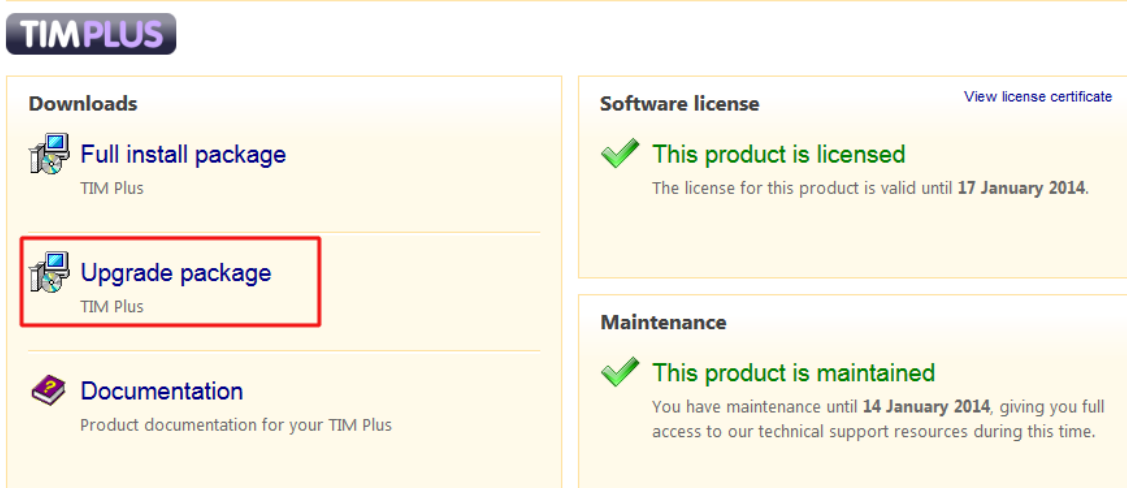
Migrating TIM Plus

To migrate TIM Plus from one computer to another requires the following actions:

1. Upgrade TIM Plus on the old computer
2. Install TIM Plus on the new computer
3. Migrate the historical data

Upgrading TIM Plus on the old computer

1. Log in to our Gateway and click on the TIM Plus product. Select the **Upgrade package** from the Downloads area and save the file on your computer.



2. When you have downloaded the setup package, double-click on it and follow the setup wizard in order to complete the installation.

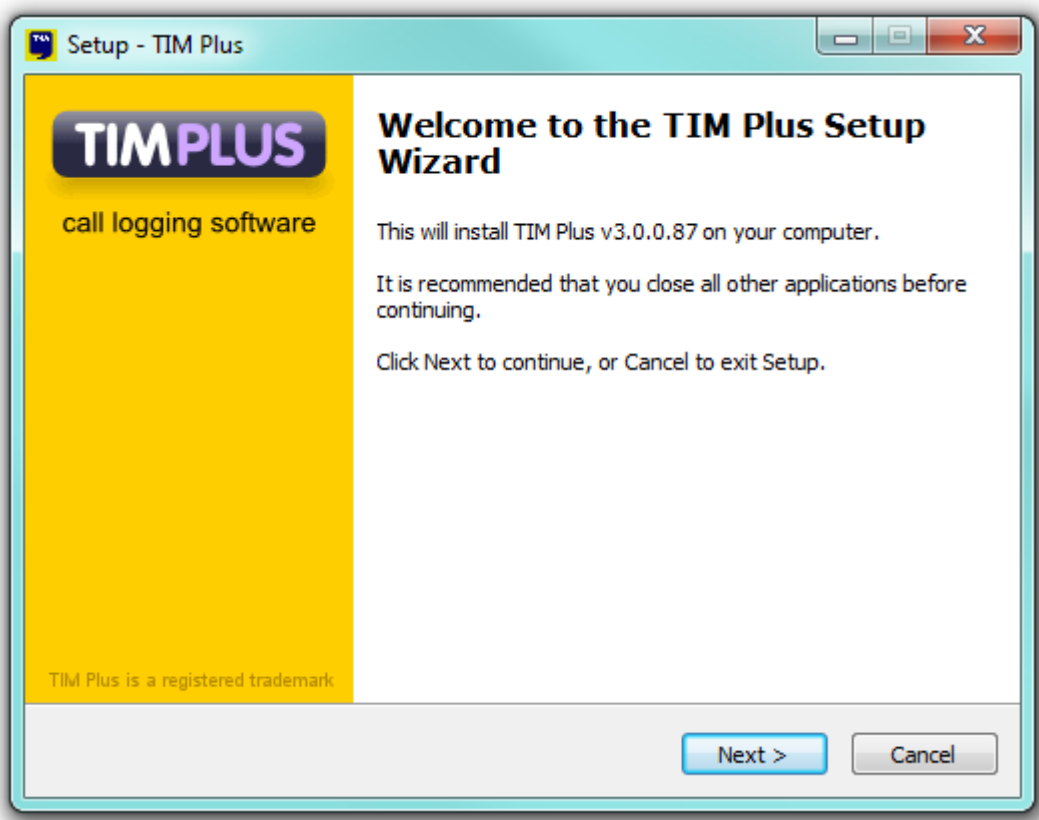


Installing TIM Plus on the new computer

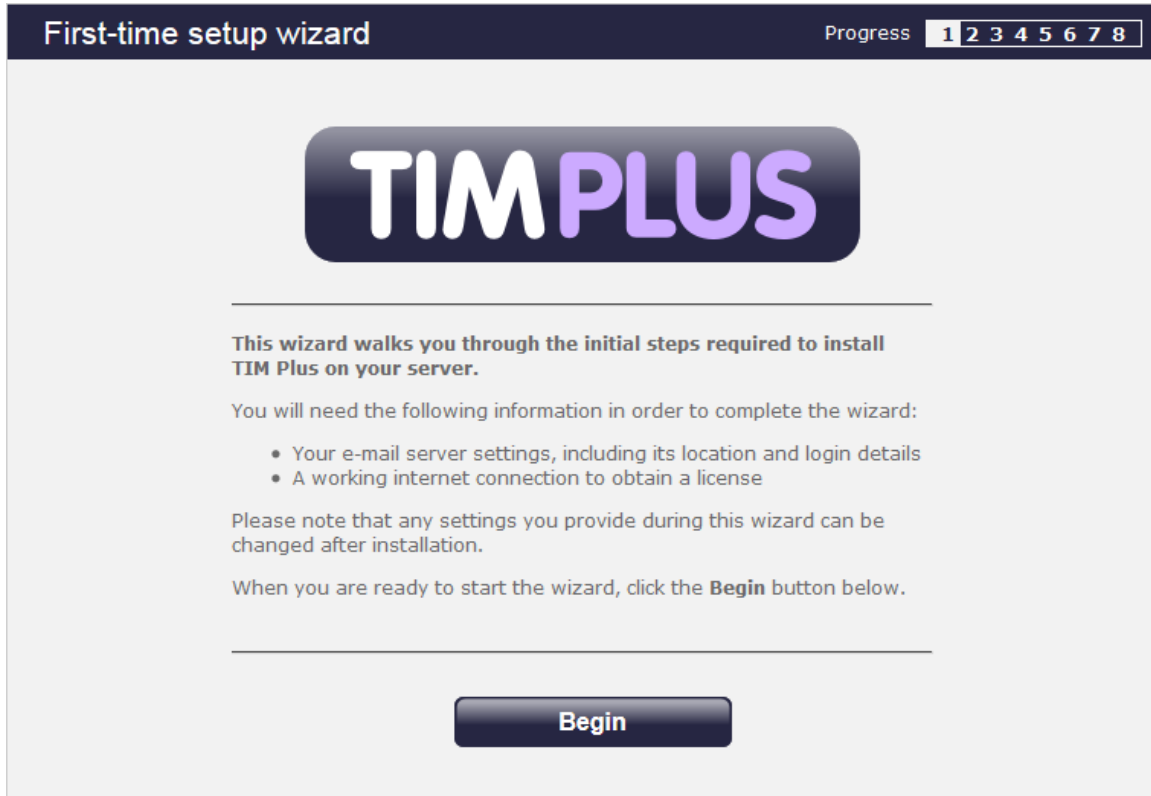
1. Log in to our Gateway and click on the TIM Plus product. Select the **Full install package** from the Downloads area and save the file on your computer.

The screenshot shows the TIM Plus website interface. On the left, under the 'Downloads' section, the 'Full install package' is highlighted with a red box. Below it are 'Upgrade package' and 'Documentation'. On the right, the 'Software license' section states 'This product is licensed' with a link to 'View license certificate' and a validity date of '17 January 2014'. The 'Maintenance' section states 'This product is maintained' with a validity date of '14 January 2014'.

2. To install TIM Plus, double-click on the setup package and follow the on-screen instructions.

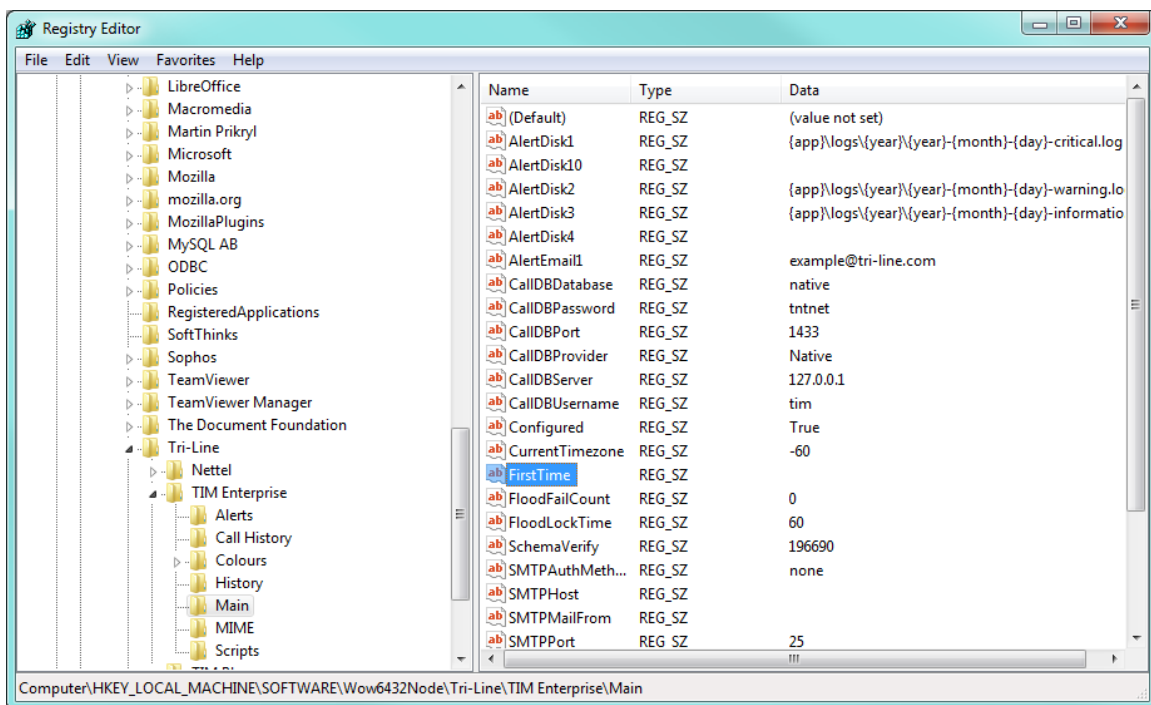


3. After installation, the First-time setup wizard screen will open automatically in a new web browser window.



4. Close the web page, access the Windows Services and restart TIM Plus service.
5. Access Windows Registry Editor (start -> Run -> regedit.exe) and remove the **FirstTime** value from the following Registry key:

HKEY_LOCALMACHINE\Software\Tri-Line\TIM Plus\ Main



Migrating the historical data

To restore your historical data on the new computer, copy the TIM Plus folder from the old machine, transfer it across on the new computer and paste it over the existing TIM Plus folder. This action will overwrite its content.

You can now start the TIM Plus service.



At this stage of the process you will be asked to provide a license key for the new installation. Copy the product key into a text file and email it to our Technical Support team.

Re-running data

Follow the steps below to re-run data in TIM Plus:

1. Locate the backup files you want to re-run data for and copy them to a separate folder onto the Desktop. By default, the backup files are stored in the following location:

```
{Program Files}\Tri-Line\TIM Plus\backup
```

2. Log in to TIM Plus as `root` user, select the `Settings` tab and click on the `Query browser` button.
3. To check the datasource for the PBX object you want to delete calls for, enter the following query:

```
SELECT name, fullkey from dir where type = 'pbx';
```

The screenshot shows the TIM Plus web interface. The top navigation bar includes 'Directory', 'Call view', 'Live stats', 'Tariff editor', 'Settings', and 'Alerts'. The left sidebar contains a menu with 'Query browser' selected. The main content area is titled 'Query browser' and contains a text input field with the SQL query: `SELECT name, fullkey from dir where type = 'pbx';`. Below the input field is a table with the following data:

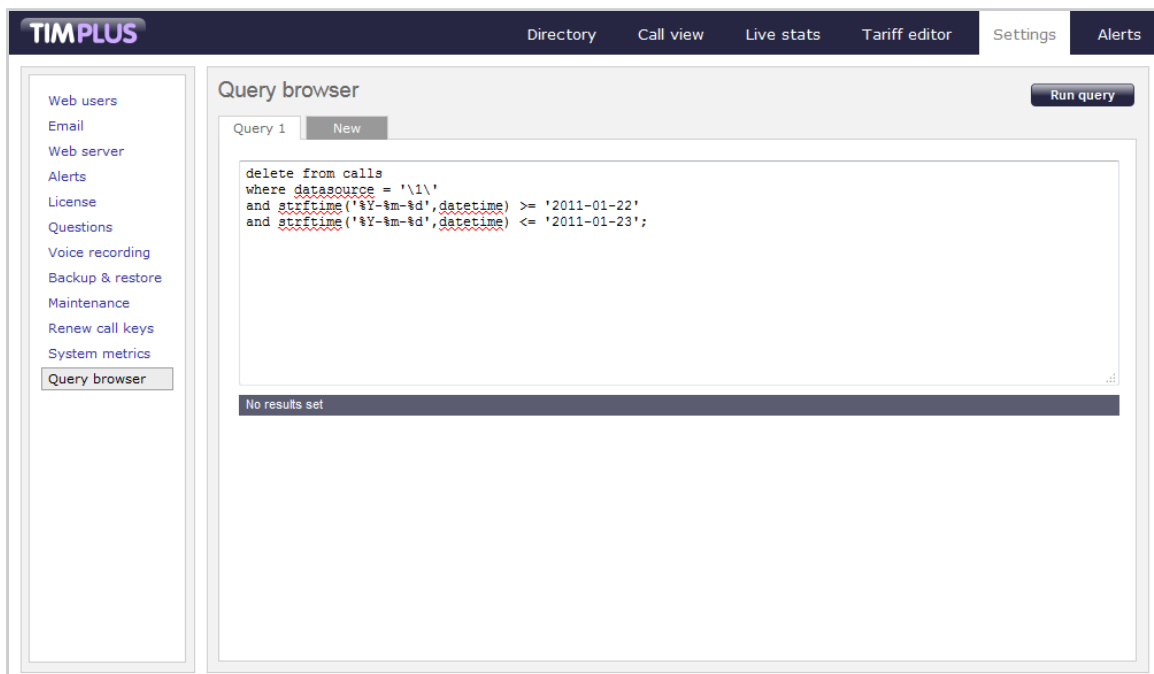
Name	FullKey
London	\1\'

4. To delete calls for a specific PBX object and time period, enter the following query:

```
delete from calls
where datasource = '\1\'
and strftime('%Y-%m-%d',datetime) >= '2011-01-22'
and strftime('%Y-%m-%d',datetime) <= '2011-01-23';
```

- i** The `datasource` and `datetime` values must be modified accordingly, in order to match your requirements for the time period and the PBX you want to delete calls for.

5. The query should return the message **No results set**, confirming the selected calls have been deleted.



6. To re-run the data back in the system, copy the backup files you have previously copied onto the Desktop and paste them into the following location:

```
{Program Files}\Tri-Line\TIM Plus\spool
```

7. While the system is processing the data, you can monitor the **Call view** screen to view the calls that are being logged.

- i** The time to re-spool the data will vary, depending on the amount and size of the files your system is processing.

VAT rate adjustment

VAT rate adjustment

- Introduction
- Changing Web format
- Changing PDF format

Introduction

Every report in TIM Plus can be fully customised, from how they perform their calculations to the way they appear.

To amend a report, you need to edit its associated XSL or PDF script file, paying attention to the class of web user whose content you want to change, and which report format.

This document details how to change the tax rate in the `Phone Bill` report in both `Web` and `PDF` formats, for any web user with a class of `Administrator`.

Every report has a unique ID number which the system uses to identify the report type (the report ID for a `Phone Bill` report is 2)

Changing Web format

Open the following file in a plain text editor such as Notepad:

```
{Program Files (x86)}\Tri-Line\TIM  
Plus\ssldata\_siteadmin\scripts\web\2.xs
```

Look in the first few lines of code for the VAT amount, then change it to the new amount, respecting the decimal point and number of decimal places:

```

<?xml version="1.0" encoding="UTF-8" ?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Tran
<xsl:output media-type="text/html" encoding="UTF-8" method="html" />
<!-- Phone bill -->
  <xsl:variable name="vat">20.0</xsl:variable>
  <xsl:include href="all.xsl" />
  <xsl:template match="report">
    <html>
      <head>
        <title>
          <xsl:value-of select="properties/name" />
        </title>
        <link rel="stylesheet" type="text/css" href="css/2.css"
        <link rel="stylesheet" type="text/css" href="furniture/c
        <link rel="stylesheet" type="text/css" href="furniture/c
        <script type="text/javascript" src="common/js/common.js"
        <script type="text/javascript" src="js/all.js" />
        <script type="text/javascript">
          <xsl:call-template name="definition" />
        </script>
      </head>
      <body onload="FixMozHeight();">
        <xsl:call-template name="load_frame" />
        <xsl:call-template name="optionssection" />
        <xsl:call-template name="filtersection" />
      </body>
    </html>
  </xsl:template>

```

Save the file and run a new `Phone Bill` report in `Web` format to verify whether the amount has changed. If it hasn't then you may be running the report as a web user with a different web class than `Administrator`; in which case, modify the file in the path specified above, but choose the appropriate folder other than `_admin`.

Changing PDF format

Again, in a plain text editor such as Notepad, edit the following file:

You'll notice that this is a Javascript file, and that it is located in the `\pdf\` folder of the `\scripts\` folder.

```
{Program Files(86)}\Tri-Line\TIM Plus\ssldata\_admin\scripts\pdf\2.js
```

Search for the following line (the value shown below may be different on your system):

```
var _vat = 20.0;
```

Change the value to the new amount, then save the file.

Run a new `Phone Bill` report in `PDF` format to verify that the amount has changed.